

### *Literature Cited and Selected References*

- Aasheim, R. 1980. Snowmobile impacts on the natural environment. IN R. Andrews and P. Nowak, (eds.). Off-road Vehicle Use: A Management Challenge. USDA-Office of Environmental Quality. Washington, DC.
- Abbott, I. and P. R. Grant. 1976. Nonequilibrium bird faunas on islands. Amer. Natur. 110: 507-528.
- ABC News. 1999. Off the beaten track. ABC News story. Copy printed Sept. 22, 1999. Posted at abcnews.go.com/sections/us/DailyNews/suvs990907.html. (on file with author).
- Abdel-Magid, A. H., M. J. Trlica, R. H. Hart. 1987. Soil and vegetation responses to simulated trampling. J. Range Manage. 40(4): 303-306.
- Abrahamson, D. E. (ed.). 1989. THE CHALLENGE OF GLOBAL WARMING. Island Press. Washington, DC.
- Adams, J. A., L. H. Stolzy, A. S. Endo, P. G. Rowlands, H. B. Johnson. 1982. Desert soil compaction reduces annual plant cover. Calif.-Agric. 36 (9410): 6-17.
- Adams, L. 1970. POPULATION ECOLOGY. Dickenson Publ. Co. Belmont, CA.
- Adams, M. 1986. SAGEBRUSH POST OFFICES - A HISTORY OF THE Owyhee COUNTRY. Idaho State Univ. Press. Pocatello, ID.
- Adams, T. 1999a. Environmental groups eyeing ESA listing for sage grouse. The Daily Times. Montrose, CO.
- Adams, T. 1999b. Grouse research leads to discovery of new species. The Daily Times. Montrose, CO.
- Adams, T. 1999c. Sage grouse listing may be daunting undertaking. The Daily Times.
- Adams, T. 1999d. Lots of reasons seen for sage grouse losses. The Daily Times.
- Addison, E. M. and R. C. Anderson. 1969. *Oxyspiruar lumsdeni*; n. sp. (Nematoda: Thelaziidae) from Tetraonidae in North America. Can. J. Zool. 47: 1223-1227.
- Agenda, Pinon Mesa. 1999. Pinon Mesa Gunnison Sage Grouse Conservation Plan; 4th Meeting Agenda; July 21, 1999. 2 pages.
- Aiken, C. E. and C. H. Holden. 1872. Notes on the birds of Wyoming and Colorado Territories. Proc. Boston Soc. Natur. Hist. 15: 193-210.
- Airola, D. A. 1986. Brown-headed cowbird parasitism and habitat disturbance in the Sierra Nevada. J. Wildl. Manage. 50 (4): 571-575.
- Alcock, J. 1993. ANIMAL BEHAVIOR: AN EVOLUTIONARY APPROACH. Sinauer Assoc. Sunderland, MA.
- Alderfer, R. B. and R. R. Robinson. 1947. Runoff from pastures in relation to grazing intensity and soil compaction. J. Amer. Soc. Agronomy 29: 948-958.
- Aldrich, J. W. 1946. New subspecies of birds from western North America. Proc. Biol. Soc. Wash. 59: 129-136.
- Aldrich, J. W. 1963. Geographic orientation of American Tetraonidae. J. Wildl. Manage. 27: 529-545.
- Aldrich, J. W. and A. J. Duvall. 1955. Distribution of American gallinaceous game birds. U.S. Fish and Wildlife Service, Circ. No. 34. Washington, DC. 23 pages.
- Alldredge, J. R. and J. T. Ratti. 1986. Comparison of some statistical techniques for analysis of resource selection. J. Wildl. Manage. 50: 157-165.

- Alldredge, J. R. and J. T. Ratti. 1992. Further comparison of some statistical techniques for analysis of resource selection. *J. Wildl. Manage.* 56: 1-9.
- Allee, W. C. 1938. THE SOCIAL LIFE OF ANIMALS. W. W. Norton & Co. New York, NY.
- Allee, W. C. 1951. COOPERATION AMONG ANIMALS, WITH HUMAN IMPLICATIONS. Schuman. New York, NY.
- Allen, D. L. 1954. OUR WILDLIFE LEGACY. Funk and Wagnalls. New York, NY. 422 pages.
- Allen, E. A. 1934. *Eimeria angusta* n. sp. and *Eimeria bonasae* n. sp. from grouse with a key to the species of *Eimeria* in birds. *Trans. Amer. Microscop. Soc.* 53: 1-5.
- Allen, E. B. 1988. Some trajectories of succession in Wyoming sagebrush grassland: implications for restoration. Pages 89-112 IN E. B. Allen (ed.). THE RECONSTRUCTION OF DISTURBED ARID LANDS: AN ECOLOGICAL APPROACH. Westview Press. Boulder, CO.
- Allen, E. B. 1995. Restoration ecology: limits and possibilities in arid and semiarid lands. Pages 7-15 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA - Forest Service. Ogden, UT.
- Allen, E. B. and D. H. Knight. 1984. The effects of introduced annuals on secondary succession in sagebrush grassland, Wyoming. *Southwest. Natur.* 9: 407-421.
- Allen, E. O. 1973. Guidelines for habitat protection in sage grouse range. *Proc. West. States Sage Grouse Workshop* 8: 18-28.
- Allen, M. F. 1988. Below ground structure: a key to reconstructing a productive arid ecosystem. Pages 113-135 IN E. B. Allen (ed.). THE RECONSTRUCTION OF DISTURBED ARID LANDS: AN ECOLOGICAL APPROACH. Westview Press. Boulder, CO.
- Allendiaz, B. and J. W. Bartolome. 1998. Sagebrush-grass vegetation dynamics - comparing classical and state-transition models. *Ecol. Applic.* 8(3): 795-804.
- Allendorf, F. S. 1983. Isolation, gene flow, and genetic differentiation among populations. Pages 51-65 IN C. M. Schonwald-Cox, S. M. Chambers, B. MacBryde, W. L. Thomas (eds.). GENETICS AND CONSERVATION -- A REFERENCE FOR MANAGING WILD ANIMAL AND PLANT POPULATIONS. Benjamin/Cummings Publ. Co. Menlo Park, CA.
- Allendorf, F. W. and R. F. Leary. 1986. Heterozygosity and fitness in natural populations of animals. Pages 57-76 IN M. E. Soulé (ed.). CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinaur Assoc. Sunderland, MA.
- Allred, W. J. 1942. Predation and sage grouse. *Wyo. Wildl.* 7(1): 3-4.
- Allred, W. J. 1946. Sage grouse trapping and transplanting. *Proc. Western Assoc. State Game and Fish Commissioners* 26: 43-146.
- Allred, W. J. 1946. Wyoming sage grouse survey. *Wyo. Wildl.* 10(7): 28-31.
- Allred, W. J. 1949. Sage grouse in 1949. *Wyo. Wildl.* 13(10): 2.
- Alstatt, A. and M. S. Stigar. 1988. Sage grouse population density, production and mortality. Nevada Dept. of Wildlife. 42 pages.
- Alstatt, A. L. 1995. The potential impact of raven predation on sage grouse production in Nevada. M.S. thesis, Univ. Nevada. Reno, NV.
- Amstrup, S. C. 1980. A radio-collar for game birds. *J. Wildl. Manage.* 44: 214-217.
- Andelt, W. F. and F. F. Knowlton. 1987. Variation in coyote diets associated with season and successional changes in vegetation. *J. Wildl. Manage.* 51: 273-277.

- Andersen, D. E., O. J. Rongstad, W. R. Mytton. 1990. Home-range changes in raptors exposed to increased human activity levels in southeastern Colorado. *Wildl. Soc. Bull.* 18: 134-142.
- Anderson, D. C., K. T. Harper, R. C. Holmgren. 1982. Recovery of cryptogamic soil crusts from grazing on Utah winter ranges. *J. Range Manage.* 35: 355-359.
- Anderson, D. E., O. J. Rongstad, W. R. Mytton. 1989. Response of nesting Redtailed Hawks to helicopter overflights. *Condor* 91: 296-299.
- Anderson, D. E., O. J. Rongstad, W. R. Mytton. 1990. Home range changes in raptors exposed to increased human activity levels in Colorado. *Wildl. Soc. Bull.* 18: 134-142.
- Anderson, D. R., K. P. Burnham, A. B. Franklin, [et al.]. 1999. A protocol for conflict resolution in analyzing empirical data related to natural resource controversies. *Wildlife Society Bull.* (in press).
- Anderson, J. E. and G. M. Marlette. 1986. Probabilities of seedling recruitment and the stability of crested wheatgrass stands. Pages 97-105 IN K. L. Johnson (ed.). *Proc. Symp. Crested Wheatgrass: Its Values, Problems, and Myths.* Oct. 3-7, 1983. Utah State Univ. Logan, UT.
- Anderson, J. E. and K. E. Holte. 1981. Vegetation development over 25 years without grazing on sagebrush-dominated rangeland in southeastern Idaho. *J. Range Manage.* 34: 25-29.
- Anderson, J. E. and M. L. Shumar. 1989. Guidelines for revegetation of disturbed sites at the Idaho National Engineering Laboratory. U.S. Dept. Energy, Idaho Operations Office DOE/ID-12114. Natl. Tech. Info. Service. Springfield, VA. 37 pages.
- Anderson, J. R., E. E. Hardy, J. T. Roach, [et al.]. 1975. A land use and land cover classification system for use with remote sensor data. *Geol. Survey Prof. Paper* 964. USDI-Geological Survey. US GPO. Washington, DC. 28 pages.
- Anderson, L. D. 1991. Bluebunch wheatgrass defoliation: effects and recovery. *BLM Tech. Bull.* 91-92. Salmon, ID.
- Anderson, S. H. 1991. *MANAGING OUR WILDLIFE RESOURCES.* 2<sup>nd</sup> ed. Prentice Hall. Englewood Cliffs, NJ.
- Anderson, S. H., W. A. Hubert, C. Patterson, [et al.]. 1987. Distribution of vertebrates of the Bighorn Canyon National Recreation Area. *Great Basin Natur.* 47: 512-521.
- Andersson, M. B. 1982. Sexual selection, natural selection and quality advertisement. *Biol. J. Linn. Soc.* 17: 375-393.
- Andren, H. 1994. Effects of habitat fragmentation on birds and mammals in landscapes with different proportions of suitable habitat: a review. *Oikos* 71: 355-366.
- Angermeier, P. L. and J. R. Karr. 1994. Biological integrity versus biological diversity as policy directives. *BioScience* 44: 690-697.
- Anonymous, undated document 1. Dry Creek Basin/Miramonte Reservoir sage grouse habitat needs. 3 pages. Document obtained in response to a FOIA to BLM, Colorado State Office.
- Anonymous, undated document 2. Sage grouse – San Miguel-Montrose County Area, Colorado. Document obtained in response to a FOIA to BLM, Colorado State Office.
- Anonymous, undated document 3. Dry Creek/Miramonte reservoir sage grouse population data. 3 pages. Document obtained in response to a FOIA to BLM, Colorado State Office.

- Anonymous, undated document 4. Sage grouse annual life cycle and habitat requirements. 3 pages of bold face text. Document obtained in response to a FOIA to BLM, Colorado State Office.
- Anonymous, undated document 5. Response to questions and concerns received from field offices on the proposed O&G leasing stipulation to protect sage grouse nesting habitat. 2 pages. Document obtained in response to a FOIA to BLM, Colorado State Office.
- Anonymous. 1940. The strutting sage grouse. Wyo. Wildl. 5(6): 10-11.
- Anonymous. 1944. The 1944 sage grouse season. Colo. Conserv. Comments 4(7): 18.
- Anonymous. 1948. A report on Wyoming sage grouse. Wyo. Wildl. 12(3): 14-19, 32-33.
- Anonymous. 1955. Using the cannon net trap to capture and band sage grouse. Idaho Wildl. Rev. (Jan.-Feb.): 6.
- Anonymous. 1957. Sage grouse study. Idaho Wildl. Rev. (May-June): 8.
- Anonymous. 1960. Sage grouse hunt cancelled--poor nesting conditions. Outdoor Calif. 21(8): 4.
- Anonymous. 1961. Sage grouse trapping and banding. Wyo. Wildl. 25(10): 20-23.
- Anonymous. 1995a. Fruitland Mesa sage grouse field trip 1 page, dated June 15, 1995.
- Anonymous. 1995b. Fruitland Mesa lek counts: 1978 -1994. 1 page, table with some printed and some handwritten figures.
- Anonymous. 1997 Estimated number of sage grouse hunters. Table 13.
- Anonymous. A part of Idaho's high desert heritage. Idaho Dept. of Fish and Game. Upland Game Program
- Anonymous. Report. Audubon Society of Portland. Portland, OR.
- Antevs, E. 1938. Rainfall and tree growth in the Great Basin. Carnegie Inst. of Wash., Publ. 469. Amer. Geogr. Soc., Spec. Publ. 21. Washington, DC. 97 pages.
- AOU. 1889. SUPPLEMENT TO THE CODE OF NOMENCLATURE AND CHECK-LIST OF NORTH AMERICAN BIRDS ADOPTED BY THE AMERICAN ORNITHOLOGISTS' UNION. American Ornithologists' Union. New York, NY.
- AOU. 1957. CHECK-LIST OF NORTH AMERICAN BIRDS. 5<sup>th</sup> ed. American Ornithologists' Union. Ithaca, NY. 691 pages.
- AOU. 1983. CHECK-LIST OF NORTH AMERICAN BIRDS. 6<sup>th</sup> ed. American Ornithologist's Union, Lord Baltimore Press. Baltimore, MD.
- AOU. 1998. CHECKLIST OF NORTH AMERICAN BIRDS. 7<sup>th</sup> ed. Allen Press. Lawrence, KS.
- Apa, A. D. 1998. Habitat use and movements of sympatric sage and columbian sharp-tailed grouse in southeastern Idaho (*Centrocercus urophasianus*, *Tympanuchus phasianellus*, sage grouse). Ph.D. Diss., Univ. Idaho. Moscow, ID.
- Aplet, G. H. and W. S. Keeton. 1999. Application of historical range of variability concepts to biodiversity conservation. Pages 71-86 IN R. K. Baydack, Henry Campa, J. B. Haufler (eds.) PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.
- Arbib, R. 1976. The blue list for 1977. Amer. Birds 30: 1031-1039.
- Arbib, R. 1977. The blue list for 1978. Amer. Birds 31: 1087-1096.
- Arbib, R. 1978. The blue list for 1979. Amer. Birds 32: 1106-1113.

- Archer, S. 1994. Woody plant encroachment into southwestern grasslands and savannas: rates, patterns, and proximate causes. Pages 13-68 IN M. Vavra, W. A. Laylock, R. D. Pieper (eds.). Ecological Implications of Livestock Herbivory in the West. Soc. Range Management. Denver, CO
- Archer, S and F. E. Smeins. 1991. Ecosystem-level processes. Pages 109-139 IN R. K. Heitschmidt and J. W. Stuth (eds.). GRAZING MANAGEMENT: AN ECOLOGICAL PERSPECTIVE. Timber Press. Portland, OR.
- Armitage, P. 1975. STATISTICAL METHODS IN MEDICAL RESEARCH. Oxford: Blackwell.
- Armour, C. L., D. A. Duff, W. Elmore. 1991. The effects of livestock grazing on riparian and stream ecosystems. *Fisheries* 16(1): 7-11.
- Armour, C., D. Duff, W. Elmore. 1994. The effects of livestock grazing on western riparian and stream ecosystem. *Fisheries* 19(9): 9-12.
- Armstrong, E. A. 1965. BIRD DISPLAY AND BEHAVIOR, AN INTRODUCTION TO THE STUDY OF BIRD PSYCHOLOGY. Dover Publ. New York, NY. 431 pages.
- Arnold, J. F. 1950. Changes in ponderosa pine bunchgrass ranges in northern Arizona resulting from pine regeneration and grazing. *J. Forestry* 48: 118-126.
- Arnolds, T. D. 1978. The response of native vertebrate populations to different land management practices on the Idaho National Engineering Laboratory site IN O. D. Markham (ed.). Ecological Studies on the Idaho National Laboratory Site, 1978 Progress Report. Environ. Sci. Rep. IDO-12087. U.S. Dept. Energy.
- Arnqvist, G. and D. Wooster. 1995. Meta-analysis: synthesizing research findings in ecology and evolution. *Trends Ecol. Evol.* 10: 236-240.
- Aronoff, S. 1989. GEOGRAPHIC INFORMATION SYSTEMS: A MANAGEMENT PERSPECTIVE. WDL Publications. Ottawa, Canada.
- Arrington, O. N. and A. E. Edwards. 1951. Predator control as a factor in antelope management. *Trans. N. Amer. Wildl. Conf.* 16: 179-193.
- Arthur, W. J., J. W. Connelly, D. K. Halford, T. D. Reynolds. 1984. Vertebrates of the Idaho National Engineering Laboratory. U.S. Dept. Energy, Idaho Operations Office DOE/ID-12099. Natl. Tech. Info. Service. Springfield, VA. 40 pages.
- Artz, M. C. 1989. Impacts of linear corridors on perennial vegetation in the East Mojave Desert: implications for environmental management planning. *Natural Areas J.* 9(2): 117-127.
- Askins, R. A. 1995. Hostile landscapes and the decline of migratory songbirds. *Science* 267: 1956-1957.
- Askins, R. A., J. F. Lynch, R. Greenberg. 1990. Population declines in migratory birds in eastern North America. *Current Ornithol.* 7: 1-57.
- Aspinall, R. 1993. Use of geographic information systems for interpreting land-use policy and modeling effects of land-use change. Pages 223-235 IN R. Haines-Young, D. R. Green, S. Cousins (eds.). LANDSCAPE ECOLOGY AND GEOGRAPHIC INFORMATION SYSTEMS. Taylor & Francis. New York, NY.
- Association of Official Analytical Chemists. 1990. OFFICIAL METHODS OF ANALYSIS. 15<sup>th</sup> ed. Washington, DC. (in two volumes).
- Association of Official Chemists. 1980. OFFICIAL METHODS OF ANALYSIS. 13th ed. Washington DC.

- Atkinson, I. A. E. 1985. Introduced animals and extinctions. Pages 54-75 IN D. Western and M. C. Pearl (eds.). CONSERVATION FOR THE TWENTY-FIRST CENTURY. Oxford Univ. Press. Oxford, England.
- Atwill, E. R. 1996. Assessing the link between rangeland cattle and water-borne *Cryptosporidium parvum* infection in humans. *Rangelands* 18: 48-51.
- Atwill, R. 1995. Cryptosporidium parvum and cattle: implications for public health and land use restrictions. Water Quality Information Center, National Agricultural Library. USDA. Washington, DC.
- Atwood, N. D. 1970. Flora of the National Reactor Testing Stn. Brigham Young Univ. Sci. Bull. Biol. Ser. 11: 1-46.
- Autenrieth, R. E. 1969. Bumper mounted cannon net. Proc. West. States Sage Grouse Workshop 6: 94-99.
- Autenrieth, R. E. 1969. Impact of strip spray on vegetation and sage grouse use on summer habitat. Proc. West. States Sage Grouse Workshop 6: 147-156.
- Autenrieth, R. E. 1973. Sage grouse research in Idaho. Proc. West. States Sage Grouse Workshop 8: 51-52.
- Autenrieth, R. E. 1980. The sagebrush connection. Id. Wildl. 2(3): 9-11.
- Autenrieth, R. E. 1981. Sage grouse management in Idaho. Wildlife Bull. No. 9. Idaho Dept. Fish and Game. Boise, ID.
- Autenrieth, R. E. 1986. Sage grouse. Pages 762-779 IN A. S. Eno, R. L. Di Silvestro, W. J. Chandler (compilers). AUDUBON WILDLIFE REVIEW 1986. Natl. Audubon Soc. New York, NY.
- Autenrieth, R. E. and G. Copeland. 1979. Antelope ecology, Study VII, job 1. Ecology of sage grouse on the INEL site. Job progress report. Wildlife research series project W-160-R-6. Idaho Dept. of Fish and Game.
- Autenrieth, R. E., W. Molini, C. Braun (eds.) 1982. Sage grouse management practices. Tech. Bull No. 1. Western States Sage Grouse Committee. Twin Falls, ID. 42 pages.
- Autenrieth, R. E., W. R. Brigham, W. Molini, P. Shields, J. Slosson, M. Wickersham. 1977. Livestock and upland wildlife. Pages 76-86 IN J. W. Menke (ed.). Proc. Workshop on Livestock and Wildlife-Fisheries Relationships in the Great Basin; May 3-5, 1977; Sparks, NV. Spec. Publ. 3301. Univ. California Div. Agric. Sci. Univ. California. Berkeley, CA.
- Avery, T. E. 1977. INTERPRETATION OF AERIAL PHOTOGRAPHS. 3rd ed. Burgess Press. Minneapolis, MI.
- Avery, T. E. and G. L. Berlin. 1985. INTERPRETATION OF AERIAL PHOTOGRAPHS. 4<sup>th</sup> ed. Burgess Press. Minneapolis, MN. 554 pages.
- Awbrey, F. T. and A. E. Bowles. 1990. Effects of aircraft noise and sonic booms on raptors: a preliminary model and a synthesis of the literature on disturbance. Noise and Sonic Boom Impact Technol. Tech. Oper. Rept. No. 12. Wright-Patterson A. F. B. Dayton, OH.
- Babbitt, B. 1995. Science: opening the next chapter of conservation history. *Science* 267: 1954-1955.
- Back, G. N., M. R. Barrington, J. K. McAdoo. 1987. Sage grouse use of snow burrows in northeastern Nevada. *Wilson Bull.* 99: 488-490.

- Bagley, L. 1951. The 1951 sage grouse season. Wyo. Wildl. 15(9): 2.
- Bahre, C. J. 1985. Wildfire in southeastern Arizona between 1859 and 1890. Desert Plants 7(4): 190-194.
- Bahre, C. J. 1987. Wild hay harvesting in southern Arizona: a casualty of the march of progress. J. Arizona History 28: 69-78.
- Baicich, P. J. 1997. A GUIDE TO THE NESTS, EGGS, AND NESTLINGS OF NORTH AMERICAN BIRDS. 2<sup>nd</sup> ed. Academic Press. San Diego, CA.
- Bailey, A. M. 1925. Segregation of the sexes in the sage hen. Condor 27: 172-173.
- Bailey, A. M. and R. J. Niedrach. 1939. Fan and bubble dance. Rocky Mtn. Sportsman 2(5): 8-11, 30-31.
- Bailey, A. M. and R. J. Niedrach. 1965. BIRDS OF COLORADO. Vol. 1. Denver Museum of Natural History. Denver, CO. 895 pages.
- Bailey, F. M. 1917. HANDBOOK OF BIRDS OF THE WESTERN UNITED STATES, INCLUDING THE GREAT PLAINS, GREAT BASIN, PACIFIC SLOPE, AND LOWER RIO GRANDE VALLEY. 7<sup>th</sup> ed. Houghton Mifflin Co. Boston, MA.
- Bailey, F. M. 1928. BIRDS OF NEW MEXICO. New Mexico Dept. Game and Fish. Santa Fe, NM. 807 pages.
- Bailey, F. M. 1928. HANDBOOK OF BIRDS OF THE WESTERN UNITED STATES, INCLUDING THE GREAT PLAINS, GREAT BASIN, PACIFIC SLOPE, AND LOWER RIO GRANDE VALLEY. New Mexico Dept. Game and Fish. Santa Fe, NM.
- Bailey, R. G. 1978. Description of the ecoregions of the United States. Misc. Publ. No. 1391. USDA – Forest Service. Ogden, UT. 77 pages.
- Bailey, T. N. 1981. Den ecology, population parameters and diet of eastern Idaho bobcats. Pages 62-69 IN L. G. Blum and P. C. Escherich (eds.). Proc. Bobcat Research Conference; Oct. 16-18, 1979; Front Royal, VA. NWF Science and Technical Series No. 6. National Wildlife Federation. Washington, DC.
- Baird, S. F. 1859. Catalogue of North American birds, chiefly in the Museum of the Smithsonian Institution. Smithsonian misc. collections 2(4). Smithsonian Inst. Washington, DC.
- Baird, S. F., J. Cassin, G. N. Lawrence. 1858. Reports of explorations and surveys to ascertain the most practicable and economical route for a railroad from the Mississippi River to the Pacific Ocean. Vol. 9. Washington, DC. 963 pages.
- Baird, S. F., T. M. Brewer, R. Ridgway. 1874. A HISTORY OF NORTH AMERICAN BIRDS: LAND BIRDS. Vols. 1-3. Little, Brown and Co. Boston, MA.
- Baird, S. F., T. M. Brewer, R. Ridgway. 1974. A HISTORY OF NORTH AMERICAN BIRDS. Vols. 1-3. Arno Press. New York, NY. (reprint of the ed. published by Little, Brown). 596 pages.
- Ballou, J. D. 1995. Genetic management, inbreeding depression and outbreeding depression in captive populations. Ph.D. Diss., Univ. Maryland. College Park, MD.
- Barber, H. 1991. Strutting behavior, distribution and habitat selection of sage grouse in Utah. M.S. thesis, Brigham Young Univ. Provo, UT.
- Barber, T. A. 1968. Function of the cecal microflora in sage grouse nutrition. M.S. thesis, Colorado State Univ. Fort Collins, CO.

- Barber, T. A., J. G. Nagy, T. A. May. 1969. Nutrition and dietary preference of penned sage grouse. Proc. West. States Sage Grouse Workshop 6: 180-188.
- Barbour, M. G. and J. Major (eds.). 1977. TERRESTRIAL VEGETATION OF CALIFORNIA. Wiley Interscience New York, NY.
- Bare, C. J. 1991. A LEGACY OF CHANGE - HISTORIC HUMAN IMPACT ON VEGETATION OF THE ARIZONA BORDERLANDS. Univ. Arizona Press. Tucson, AZ.
- Barnard, C. J. 1983. ANIMAL BEHAVIOUR: ECOLOGY AND EVOLUTION. John Wiley & Sons. New York, NY.
- Barnett, J. K. 1992. Diet and nutrition of female sage grouse during the pre-laying period. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Barnett, J. K. and J. A. Crawford. 1993. Diet and nutrition of sage grouse hens during the pre-laying period in Oregon. Oregon Agric. Res. Stn. Rep. 10-123.
- Barnett, J. K. and J. A. Crawford. 1994. Pre-laying nutrition of sage grouse hens in Oregon. J Range Manage. 47: 114-118.
- Barrett, G. W. and P. J. Bohlen. 1991. Landscape ecology. Pages 149-161 IN W. E. Hudson (ed.) LANDSCAPE LINKAGES AND BIODIVERSITY. Defenders of Wildlife. Island Press Washington, DC. 194 pages.
- Barrett, S. W., S. F. Arno, J. P. Menakis. 1997. Fire episodes in the Inland Northwest (1540 - 1940) based on fire history data. Gen. Tech. Rep. PNW-370. USDA -- Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Barrowclough, G. F. 1980. Gene flow, effective population sizes, and genetic variance components in birds. Evolution 34: 789-798.
- Barsness, J. 1990. The grouse nobody knows. Field and Stream. Nov. 57, 96-99.
- Bartolome, J. W. 1993. Application of herbivore optimization theory to rangelands of the western United States. Ecol. Appl. 3(1): 27-29.
- Batterson, W. M. and W. B. Morse. 1948. Oregon sage grouse. Oregon Fauna Series no. 1. Oregon Game Commission. Portland, OR. 29 pages.
- Bean, R. W. 1941. Life history studies of the sage grouse (*Centrocercus urophasianus*) in Clark County, Idaho. B.S. thesis, Utah State Agric. College. Logan, UT.
- Beardall, L. and V. E. Sylvester. 1974. Spring burning for removal of sagebrush competition in Nevada. Fire and Land Management Symp. Missoula, Montana.
- Beck, J. L. and D. L. Mitchell. 1997. Brief guidelines for maintaining and enhancing sage grouse habitat on private lands in Utah. Unpublished report, dated May 19, 1997, 9 pages.
- Beck, J. L., D. L. Mitchell, T. A. Black. 1999. A brief natural history of the sage grouse in Utah. Utah Div. Wildlife Resources and Landscape Ecology: Modeling and Analysis Ctr. (LEMA). Utah State Univ. Logan, UT.  
[\(<http://www.gis.usu.edu/~lema/gungrouse/nhistory.html>\)](http://www.gis.usu.edu/~lema/gungrouse/nhistory.html)
- Beck, T. D. I., R. B. Gill, C. E. Braun. 1975. Sex and age determination of sage grouse from wing characteristics. Colorado Div. Game, Fish, and Parks Info. Leaflet. Denver, CO.
- Beck, T. D. I. 1975a. Attributes of a wintering population of sage grouse, North Park, Colorado. M.S. thesis, Colorado State Univ. Fort Collins, CO.
- Beck, T. D. I. 1975b. Winter ecology of sage grouse in North Park, Colorado. J. Colo.-Wyo. Acad. Sci. 7(6): 43.

- Beck, T. D. I. 1977. Sage grouse flock characteristics and habitat selection in winter. *J. Wildl. Manage.* 41: 18-26.
- Beck, T. D. I. and C. E. Braun. 1980. The strutting ground count: variation, traditionalism, management, and needs. *Proc. Western Assoc. State Game and Fish Commissioners* 60: 558-566.
- Beck, T. D. I. and C. E. Braun. 1978. Weights of Colorado sage grouse. *Condor* 80: 241-243.
- Beckerton, P. R. and A. L. A. Middleton. 1982. Effects of dietary protein levels on ruffed grouse reproduction. *J. Wildl. Manage.* 46: 569-579.
- Beckerton, P. R. and A. L. A. Middleton. 1983. Effects of dietary protein levels on body weight, food consumption, and nitrogen balance in ruffed grouse. *Condor* 85: 53-60.
- Beddington, J. R. and R. M. May. 1977. Harvesting natural populations in a randomly fluctuating environment. *Science* 197: 463-465.
- Bednarz, J. C. 1984. The effect of mining and blasting on breeding prairie falcon (*Falco mexicanus*) occupancy on the Caballo Mountains, New Mexico. *Raptor Res.* 18: 16-19.
- Bedunah, D. J. 1992. The complex ecology of weeds, grazing, and wildlife. *Western Wildlands* 18(2): 6-11.
- Beetle, A. A. 1960. A study of sagebrush. The section Tridentatae of *Artemisia*. Univ. Wyoming Agric. Exp. Stn. Bull. 368. Laramie, WY. 83 pages.
- Behle, W. H. 1944. Check-list of the birds of Utah. *Condor* 46: 67-87.
- Behle, W. H. 1955. The birds of the Deep Creek Mountains of central western Utah. *Univ. Utah Biol. Ser.* 11(4): 1-34.
- Behle, W. H. 1958. The birds of the Raft River Moutains, northwestern Utah. *Univ. Utah Biol. Ser.* 11(6): 1-40.
- Behle, W. H. 1978. Avian biogeography of the Great Basin and intermountain region. *Great Basin Natur. Memoirs* 2: 55-80.
- Behle, W. H. and J. Ghiselin. 1958. Additional data on the birds of the Uinta Mountains and Basin of northwestern Utah. *Great Basin Natur.* 18: 1-22.
- Behle, W. H., J. B. Bushman, C. M. Greenhalgh. 1958. Birds of the Kanab area and adjacent high plateaus of southern Utah. *Univ. Utah. Biol. Ser.* 11(7): 1-92.
- Behnke, R. J. 1976. Biology and management of threatened and endangered western trouts. *Gen. Tech. Rep. RM-28. USDA – Forest Service Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO.* 45 pages.
- Behnke, R. J. and R. F. Raleigh. 1978. Grazing and the riparian zone: impact and management perspectives. Pages 263-267 IN Strategies for Protection and Management of Floodplain Wetlands and other Riparian Ecosystems Symp. USDA-Forest Service.
- Beier, P. and R. F. Noss. 1998. Do habitat corridors provide connectivity? *Conserv. Biol.* 12(6): 1241-1252.
- Belanger, L. and J. Bedard. 1989. Responses of staging greater snow geese to human disturbance. *J. Wildl. Manage.* 53: 713-719.
- Belnap, J. 1990. Microphytic crusts: topsoil of the desert. *Permaculture Drylands J. Spring*: 4-5, 14.
- Belnap, J. 1993. Recovery rates of cryptobiotic crusts: inoculant use and assessment methods. *Great Basin Natur.* 53: 89-95.

- Belnap, J. 1994. Potential role of cryptobiotic soil crusts in semiarid rangelands. Pages 179-185 *IN* S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA - Forest Service, Intermountain Res. Stn. Ogden, UT.
- Belnap, J. 1995. Genetic integrity: why do we care? An overview of the issues. Pages 265-266 *IN* B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA - Forest Service. Ogden, UT.
- Belnap, J. 1996. Soil surfact disturbances in cold deserts: effects on nitrogenase activity in cyanobacterial-lichen soil crusts. *Biol. Fertility Soils* 23: 362-367.
- Belsky, A. J. 1986. Does herbivory benefit plants? A review of the evidence. *Amer. Natur.* 127: 870-892.
- Belsky, A. J. 1987. The effects of grazing: confounding ecosystem, community, and organism scales. *Amer. Natur.* 127: 870-892.
- Belsky, A. J. 1992. Effects of grazing, competition, disturbance and fire on species composition and diversity in grassland communities. *J. Veg. Sci.* 3(2): 187-200.
- Belsky, A. J. 1994. Review of the scientific assessment of western juniper woodlands (of the Pacific Northwest). Eastside Ecosystem Management Program. Environmental Impact Statement.
- Belsky, A. J. 1996. Viewpoint: western juniper expansion: is it a threat to arid northwestern ecosystems? *J. Range Manage.* 49: 53-59.
- Belsky, A. J. and D. M. Blumenthal. 1997. Effects of livestock grazing on stand dynamics and soils in upland forests of the interior West. *Conserv. Biol.* 11: 315-327.
- Belsky, A. J., A. Matzke, S. Uselman. 1999. Survey of livestock influences on stream and riparian ecosystems in the western United States. *J. Soil and Water Conserv.* 54(1): 419-431.
- Belsky, A. J., W. P. Carson, C. L. Jensen, G. A. Fox. 1993. Overcompensation by plants: herbivore optimization or red herring? *Evol. Ecol.* 7: 109-121.
- Belt, A. J. 1998. Letter from A. J. Belt, Manager of BLM Uncompahgre Basin Resource Area dated Aug. 13, 1998 to Gary Cooper, Montrose, Colo.
- Belthoff, J. R., L. R. Powers, T. D. Reynolds. 1995. Breeding birds of the Idaho National Engineering and Environmental Laboratory, 1985-1991. *Great Basin Natur.* 58: 167-183.
- Bendell, J. F. 1972. Concluding remarks on the tetraonid symposium. *Proc. Intern. Ornithol. Congr.* 15: 170-177.
- Bendell, J. F. 1972. Population dynamics and ecology of the Tetraonidae. *Proc. Intern. Ornithol. Congr.* 15: 81-89.
- Bendell, J. F. 1974. Effects of fire on birds and mammals. Pages 73-138 *IN* T. T. Kozlowski and C. E. Ahlgren (eds.). FIRE AND ECOSYSTEMS. Academic Press. New York, NY.
- Bendire, C. 1892. LIFE HISTORIES OF NORTH AMERICAN BIRDS WITH SPECIAL REFERENCE TO THEIR BREEDING HABITS AND EGGS. US GPO. Washington, DC.

- Bendire, C. 1974. LIFE HISTORIES OF NORTH AMERICAN BIRDS WITH SPECIAL REFERENCE TO THEIR BREEDING HABITS AND EGGS. Arno Press. New York, NY. (reprint of LIFE HISTORIES OF NORTH AMERICAN BIRDS WITH SPECIAL REFERENCE TO THEIR BREEDING HABITS AND EGGS, published by US GPO in 1892 as Special Bull. no. 1 of the United States National Museum, and its supplement LIFE HISTORIES OF NORTH AMERICAN BIRDS, FROM THE PARROTS TO THE GRACKLES, WITH SPECIAL REFERENCE TO THEIR BREEDING HABITS AND EGGS, published by US GPO in 1895 as Special Bull. no. 3 of the United States National Museum).
- Bengtsson, J. 1989. Interspecific competition increases local extinction rate in a metapopulation system. *Nature* 340: 713-715.
- Benson, L. A., C. E. Braun, W. C. Leininger. 1991. Sage grouse response to burning in the big sagebrush type. Pages 97-104 IN R. D. Comer, P. R. Davis, S. Q. Foster, [et al.] (eds.) *Proc. Issues and Technology in the Management of Impacted Wildlife Symp.*; April 8-10, 1991; Snowmass Resort, CO. Thorne Ecological Institute. Boulder, CO.
- Bent, A. C. 1932. Life histories of North American gallinaceous birds. Orders Galliformes and Columbiformes. U.S. Nat. Mus. and Smithsonian Inst. Bull. 162. 490 pages.
- Bent, A. C. 1963. LIFE HISTORIES OF NORTH AMERICAN GALLINACEOUS BIRDS. Dover Publ. New York, NY.
- Bergerud, A. T. 1970. Population dynamics of the willow ptarmigan *Lagopus lagopus alleni* L. in Newfoundland 1955 to 1965. *Oikos* 21: 299-325.
- Bergerud, A. T. 1971. The past abundance of willow ptarmigan on the Avalon Peninsula of Newfoundland. *Can. Field-Natur.* 85: 21-23.
- Bergerud, A. T. 1988a. Mating systems in grouse. Pages 439-472 IN A. T. Bergerud and M. W. Gratson (eds.). *ADAPTIVE STRATEGIES AND POPULATION ECOLOGY OF NORTHERN GROUSE*. Univ. Minnesota Press. Minneapolis, MN.
- Bergerud, A. T. 1988b. Population ecology of grouse. Pages 578-685 IN A. T. Bergerud and M. W. Gratson (eds.) *ADAPTIVE STRATEGIES AND POPULATION ECOLOGY OF NORTHERN GROUSE*. Univ. Minnesota Press. Minneapolis, MN.
- Bergerud, A. T. 1988c. Increasing the numbers of grouse. Pages 686-731 IN A. T. Bergerud and M. W. Gratson (eds.) *ADAPTIVE STRATEGIES AND POPULATION ECOLOGY OF NORTHERN GROUSE*. Univ. Minnesota Press. Minneapolis, MN.
- Bergerud, A. T. and M. W. Gratson. 1988. Survival and breeding strategies of grouse. Pages 473-577 IN A. T. Bergerud and M. W. Gratson (eds.). *ADAPTIVE STRATEGIES AND POPULATION ECOLOGY OF NORTHERN GROUSE*. Univ. Minnesota Press. Minneapolis, MN.
- Berlow, E. L. 1999. Strong effects of weak interactions in ecological communities. *Nature* 398: 330-334.
- Bernard, S. R. and K. E. Brown. 1977. Distribution of mammals, reptiles, and amphibians by BLM physiographic regions and A. W. Kuchler's associations for the eleven western states. Tech. Note 301. USDI-BLM. Denver, CO.
- Bernhardsen, T. 1996. GEOGRAPHIC INFORMATION SYSTEMS. John Wiley & Sons. New York, NY.
- Berry, J. D. and R. L. Eng. 1985. Interseasonal movements and fidelity to seasonal use areas by female sage grouse. *J. Wildl. Manage.* 49: 237-240.

- Berry, K. H. 1978. Livestock grazing and the desert tortoise. *Trans. North Amer. Wildlife and Natural Resources Conf.* 43: 505-519.
- Berry, K. H. 1986. Introduction: development, testing, and application of wildlife-habitat models. Pages 3-4 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). *WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES*. Univ. Wisconsin Press. Madison, WI.
- Berwick, S. H. 1968. Observations on the decline of the Rock Creek, Montana, population of bighorn sheep. M.S. thesis, Univ. Montana, Missoula.
- Betancourt, J. L. 1987. Paleoecology of pinyon-juniper woodlands: summary IN R. L. Everett (ed.). *Proc. Pinyon-Juniper Conf.* Gen. Tech. Rep. INT-215. USDA - Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Bibby, C. J. and Int'l Council for Bird Preservation. 1992. *PUTTING BIODIVERSITY ON THE MAP: PRIORITY AREAS FOR GLOBAL CONSERVATION*. International Council for Bird Preservation. Girton, Cambridge, United Kingdom.
- Billaux, A. 1996. Foraging ecology of sage grouse chicks in relation to vegetation. M.S. thesis, Utah State Univ. Logan, UT.
- Billings, W. D. 1994. Ecological impacts of cheatgrass and resultant fire on ecosystems in the western Great Basin. Pages 22-30 IN S. B. Monsen and S. G. Kitchen (compilers). *Proc. Ecology and Management of Annual Rangelands*. Gen. Tech. Rep. INT-313. USDA - Forest Service, Intermountain Res. Stn. Ogden, UT.
- Bizeau, E. 1960. Sage grouse management in Idaho. *Pheasant Gaz.* 9(11): 16-17.
- Blackburn, W. H. 1984. Impacts of grazing intensity and specialized grazing systems on watershed characteristics and responses. Pages 927-983 IN Nat'l Research Council, Nat'l Acadamy of Sciences. *DEVELOPING STRATEGIES FOR RANGELAND MANAGEMENT*. Westview Press. Boulder, CO.
- Blackburn, W. H. and P. T. Tueller. 1970. Pinyon and juniper invasion in black sagebrush communities in east-central Nevada. *Ecology* 51: 841-848.
- Blaisdell, J. D. and W. F. Mueggler. 1956. Effects of 2,4-D on forbs and shrubs associated with big sagebrush. *J. Range Manage.* 9: 38-40.
- Blaisdell, J. P. 1953. Competition between sagebrush seedlings and reseeded grasses. *Ecology* 30: 512-519.
- Blaisdell, J. P. 1953. Ecological effects of planned burning of sagebrush-grass range on the upper Snake River Plains. *Tech. Bull.* 1975. U.S. Dept. Agriculture. Washington, DC. 39 pages.
- Blaisdell, J. P., R. B. Murray, E. D. McArthur. 1982. Managing intermountain rangelands -- sagebrush-grass ranges. Gen. Tech. Rep. INT-134. USDA - Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Blake, C. S. 1970. The response of sage grouse populations to precipitation trends and habitat quality in south Idaho. *Proc. West. Assoc. State Game and Fish Comm.* 50: 452-462.
- Blank, R. R., J. A. Young, F. L. Allen. 1995. The soil beneath shrubs before and after wildfire implications for revegetation. Pages 173-177 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). *Proc. Wildland Shrub and Arid Land Restoration Symp.* Gen. Tech. Rep. INT-315. USDA - Forest Service. Ogden, UT.

- BLM. 1979a. Snake River birds of prey environmental impact statement. Boise District, USDI – BLM. Boise, ID.
- BLM. 1979b. Snake River birds of prey special research report to the Secretary of the Interior. USDI – BLM, Boise District. Boise, ID.
- BLM. 1980. Final Owyhee grazing environmental impact statement. USDI – BLM, Boise District.
- BLM. 1982. Integrated habitat inventory and classification system. Manual Section 6602. USDI – BLM. Washington, DC.
- BLM. 1988a. Snake River birds of prey area management plan. USDI – BLM, Boise District. Boise, ID.
- BLM. 1988b. Special status species management. USDI – BLM. Washington, DC.
- BLM. 1992. Upland game bird habitat management on the rise. Fish and Wildlife 2000. USDI-BLM.
- BLM. 1993. Riparian area management, process for assessing proper functioning condition. TR 1737-9 1993. USDI-BLM. Denver, CO.
- BLM. 1994. Noxious weed strategy for Oregon/Washington. BLM/OR/WA-94/36+4220 9 USDI-BLM. Portland, OR.
- BLM. 1995. Snake River birds of prey national conservation area management plan. BLM. Lower Snake River Dist. Off. Boise, ID.
- BLM. 1996a. Partners against weeds: an action plan for the BLM. BLM/MT/ST-96/003+1020. USDI-BLM. Billings, MT.
- BLM. 1996b. BLM priority information needs for fiscal year 1997 and fiscal year 1998. BLM memo 1702 (480) dated June 7, 1996, from BLM Director to the Director of Natl. Biol. Service. USDI-BLM. Washington, DC.
- BLM. 1997. National rangeland inventory, monitoring and evaluation report.
- BLM. 1998. National rangeland inventory, monitoring and evaluation report.
- BLM. undated. Wildlife habitat management plan, Colorado – North Park, Kremmling Resource Area, Craig District. Bureau of Land Management and Colo. Div. Wildlife. Excerpted document provided by Colo. BLM in response to FOIA request.
- BLM. 1986. Owyhee proposed final MFP amendment and final environmental impact statement wilderness. USDI-BLM, Boise District. (draft).
- BLM. 1993. West Springs prescribed burn environmental assessment. EA #93071.
- Blomquist, W. 1953. Upland game age and sex ratio. N. Dak. Outdoors 15(7): 17.
- Blumm, M. (ed.). 1986. Livestock grazing in riparian zones; ensuring fishery protection in federal rangeland management. Anadromous Fish Law Memo. Lewis and Clark Law School. Portland, OR. 19 pages.
- Blus, L. J. 1997. Field studies on pesticides and birds: unexpected and unique relations. Ecol. Appl. 7(4): 1125-1132.
- Blus, L. J. and J. W. Connelly. 1998. Radiotelemetry to determine exposure and effects of organophosphorus insecticides on sage grouse IN L. W. Brewer and K. A. Fagerstone (eds.). Proc. Workshop Radiotelemetry Applications for Wildlife Toxicology Field Studies; Jan. 5-8, 1993; Pacific Grove, California. Society of Environmental Toxicology and Chemistry. Pensacola, FL. 224 pages.

- Blus, L. J., C. S. Staley, C. J. Henny [et al.]. 1989. Effects of organophosphorus insecticides on sage grouse in south-eastern Idaho. *J. Wildl. Manage.* 53(4): 1139-1146.
- Boake, C. R. B. 1989. Repeatability: its role in evolutionary studies of mating behaviour. *Evol. Ecol.* 3: 173-182.
- Bock, C. E. 1984. Responses of birds, rodents and vegetation to livestock enclosure in a semidesert grassland site. *J. Range Manage.* 37(3): 239-242.
- Bock, C. E. 1997. The role of ornithology in conservation of the American West. *Condor* 99: 1-6.
- Bock, C. E. and J. H. Bock. 1991. Response of grasshoppers (Orthoptera: Acrididae) to wildfire in a southeastern Arizona grassland. *Amer. Midl. Natur.* 125: 162-167.
- Bock, C. E. and J. H. Bock. 1993. Cover of perennial grasses in southeastern Arizona in relation to livestock grazing. *Cons. Biol.* 7(2): 371-377.
- Bock, C. E., J. H. Bock, L. W. Lepthien. 1977. Abundance patterns of some bird species wintering on the Great Plains of the U.S.A. *J. Biogeog.* 4: 101-110.
- Bock, C. E., J. H. Bock, W. R. Kenney, V. M. Hawthorne. 1984. Responses of birds, rodents, and vegetation to livestock enclosure in a semidesert grassland site. *J. Range Manage.* 37(3): 239-242.
- Bock, C. E., V. A. Saab, T. D. Rich, D. S. Dobkin. 1993. Effects of livestock grazing on neotropical migratory landbirds in western North America. Pages 296-309 IN D. M. Finch and P. W. Stangel (eds.). *Status and Management of Neotropical Migratory Birds*. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Bock, J. H. and C. E. Bock. 1992. Vegetation responses to wildfire in native versus exotic Arizona grassland. *J. Vege. Sci.* 3: 439-446.
- Boecklen, W. J. 1986. Optimal design of nature reserves: consequences of genetic drift. *Biol. Conserv.* 38: 323-328.
- Boecklen, W. J. and D. Simberloff. 1986. Area-based extinction models in conservation. Pages 247-76 IN D. K. Elliot (ed.). *DYNAMICS OF EXTINCTION*. John Wiley & Sons. New York, NY.
- Boggs, K. and T. Weaver. 1992. Response of riparian shrubs to declining water availability. Pages 48-51 IN W. P. Clary, E. D. McArthur, D. Bedunah, C. L. Wambolt (compilers). *Proc. Symp. Ecology and Management of Riparian Shrub Communities*. Gen. Tech. Rep. INT-289. USDA – Forest Service.
- Bohn, C. C. and J. C. Buckhouse. 1985a. Some responses of riparian soils to grazing management in northeastern Oregon. *J. Range Manage.* 38: 378-381.
- Bohn, C. C. and J. C. Buckhouse. 1985b. Coliforms as an indicator of water quality in wildland streams. *J. Soil and Water Conserv.* 40: 95-97.
- Bolger, D. T., A. C. Alberts, M. E. Soulé. 1991. Occurrence patterns of bird species in habitat fragments: sampling, extinction, and nested species subsets. *Amer. Natur.* 137(2): 155-166.
- Boltz, M. 1994. Factors influencing postfire sagebrush regeneration in south-central Idaho. Pages 281-290 IN S. B. Monsen and S. G. Kitchen (compilers). *Proc. Ecology and Management of Annual Rangelands*. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.

- Bonaparte, C. L. 1827. Notice of a nondescript species of grouse. *Zool. J.* 3: 212-213.
- Bond, F. 1900. A nuptial performance of the sage cock. *Auk* 17: 325-327.
- Bonett, D. G. 1994. BUSINESS STATISTICS. Kendall Hunt. Dubuque, IA.
- Bonham, C. D. 1989. MEASUREMENTS FOR TERRESTRIAL VEGETATION. John Wiley & Sons. New York, NY.
- Bonham-Carter, G. F. 1994. GEOGRAPHIC INFORMATION SYSTEMS FOR GEOSCIENTISTS: MODELING WITH GIS. Pergamon Press. New York, NY.
- Boorman, S. A. and P. R. Levitt. 1973. Group selection on the boundary of a stable population. *Theor. Popul. Biol.* 4: 85-128.
- Booth, E. S. 1952. Ecological distribution of the birds of the Blue Mountains region of southeastern Washington and northeastern Oregon. *Publ. No. 7464.* 65-107. Walla Walla College, Dept. Biol. Sci. College Place, WA.
- Borell, A. E. 1939. Telephone wires fatal to sage grouse. *Condor* 41: 85-86.
- Borgia, G., M. S. Boyce, D. H. Clayton, [et al.]. 1990. Symp. – Parasites and sexual selection. *Amer. Zool.* 30(2): 225-352.
- Bork, E. W., N. E. West, J. W. Walker. 1998. Cover components on long-term seasonal sheep grazing treatments in three-tip sagebrush steppe. *J. Range Manage.* 51: 293-300.
- Borror, D. J., D. M. Delong, C. A. Triplehorn. 1989. An Introduction to the Study of Insects. 6<sup>th</sup> ed. Saunders College Publ. Philadelphia, PA. 875 pages.
- Botkin D. B. 1996. OUR NATURAL HISTORY: THE LESSONS OF LEWIS AND CLARK. Perigee Books. Berkeley Publ. Group. New York, NY. 300 pages.
- Bouzat, J. L., H. H. Cheng, H. A. Lewin, et al. 1998. Genetic evaluation of a demographic bottleneck in the greater prairie chicken. *Conserv. Biol.* 12(4): 836-843.
- Bowman, G. B. and L. D. Harris. 1980. Effect of spatial heterogeneity on ground-nest depredation. *J. Wildl. Manage.* 44: 806-813.
- Bowman, T. J. and R. J. Robel. 1977. Brood breakup, dispersal, mobility, and mortality of juvenile prairie chickens. *J. Wildl. Manage.* 41: 27-34.
- Box, G. E. P., W. G. Hunter, J. S. Hunter. 1978. STATISTICS FOR EXPERIMENTERS. John Wiley & Sons. New York, NY.
- Boyce, M. S. 1977. Population growth with stochastic fluctuations in the life table. *Theor. Popul. Biol.* 12: 366-73.
- Boyce, M. S. 1981. Robust canonical correlation of sage grouse habitat. Pages 152-159 IN Gen. Tech. Rep. 87. USDA-Forest Service.
- Boyce, M. S. 1988. Evolution of life histories: theory and patterns from mammals. Pages 3-30 IN M. S. Boyce (ed.). EVOLUTION OF LIFE HISTORIES OF MAMMALS. Yale Univ. Press. New Haven, CN.
- Boyce, M. S. 1990. The Red Queen visits sage grouse leks. *Amer. Zool.* 30(2): 263-270.
- Boyce, M. S. 1992. Population viability analysis. *Ann. Rev. Ecol. Syst.* 23: 481-506.
- Boyce, M. S. 1993. Population viability analysis: adaptive management for threatened and endangered species. *Trans. North Amer. Wildl. Natural Resources Conf.* Wildlife Management Inst. Washington, DC.
- Boyce, M. S. 1998. Ecological-process management and ungulates: Yellowstone's conservation paradigm. *Wildl. Soc. Bull.* 26(3): 391-398.

- Boyce, M. S. and J. Tate. 1980. A bibliography on the sage grouse (*Centrocercus urophasianus*). Science Monograph 38R. Univ. Wyoming, Laramie, WY.
- Boyce, M. S. and D. J. Daley. 1980. Population tracking of fluctuating environments and natural selection for tracking ability. Amer. Natur. 115: 480-491.
- Boyce, M. S., D. Rothenmaier, J. Tate. 1979. Multivariate analysis of habitat selection by sage grouse. J. Colo.-Wyo. Acad. Sci. 11(1): 93-94.
- Bradbury, J. W., R. M. Gibson, C. E. McCarthy, S. L. Vehrencamp. 1989a. Dispersion of displaying male sage grouse. II. The role of female dispersion. Behav. Ecol. Sociobiol. 24: 15-24.
- Bradbury, J. W., S. L. Vehrencamp, R. M. Gibson. 1989b. Dispersion of displaying male sage grouse. I. Patterns of temporal variation. Behav. Ecol. Sociobiol. 24: 1-14.
- Bradford, D. F., S. E. Franson, A. C. Neale, [et al.]. 1998. Bird species assemblages as indicators of biological integrity in Great Basin rangeland. Environ. Monitoring Assessment 49: 1-22.
- Bradley, P. 1996. Nevada's night flyers. Natural History 105(2): 73-76.
- Brady, W. W., [et al.]. 1990. Response of a semidesert grassland to 16 years of rest from grazing. J. Range Manage. 42(4): 284-288.
- Brander, R. B. 1968. A radio-package harness for game birds. J. Wildl. Manage. 32: 630-632.
- Branson, F. A. 1956. Quantitative effects of clipping treatments on five range grasses. J. Range Manage. 9: 86-88.
- Branson, F. A. 1985. Vegetation changes on western rangelands. Range Monograph No. 2. Society for Range Management. Denver, CO. 76 pages.
- Braun, C. E. 1975. Mortality, survival and effects of hunting on grouse, partridge, pheasants and quail: an annotated bibliography. Colo. Div. Wildl. Rep. 3. 39 pages.
- Braun, C. E. 1977. Evaluation of the effects of changes in hunting regulations on sage grouse populations. Colorado Division of Wildlife. 26pages.
- Braun, C. E. 1979. White-tailed ptarmigan and sage grouse habitat investigations, New Mexico. New Mexico Dept. of Game and Fish. 7 pages.
- Braun, C. E. 1980. Changes in hunting regulations. Page 28 IN O. B. Cope (ed.). Colorado wildlife research review 1977-1979. Colo. Div. Wildl. Fort Collins, CO. 81 pages.
- Braun, C. E. 1984. Attributes of a hunted sage grouse population in Colorado, USA. Pages 148-162 IN P. J. Hudson and T. W. I. Lorel (eds.). Third Intl. Grouse Symp. World Pheasant Assoc. York Univ. United Kingdom.
- Braun, C. E. 1986. Changes in sage grouse lek counts with advent of surface coal mining. Proc. issues and technology in the management of impacted western wildlife. Thorne Ecol. Inst. 2: 227-231.
- Braun, C. E. 1987. Current issues in sage grouse management. Proc. West. Assoc. Fish and Wildl. Agencies 67: 134-144.
- Braun, C. E. 1990. Memo: Eagle County sage grouse-sagebrush investigations.
- Braun, C. E. 1991a. Distribution and status of sage grouse in Colorado. Trans. West. States Sage and Sharp-tailed Grouse Workshop 17: 12.
- Braun, C. E. 1991b. Geographic variation among sage grouse in Colorado. Wilson Bull. 103: 255-261.

- Braun, C. E. 1993. The status of sage grouse: are they endangered, threatened, or? Abstract Page 23 IN Trans. First Joint Meeting Prairie Grouse Technical Council and Western States Sage and Columbian Sharp-tailed Grouse Workshop. Colo. Div. Wildl. Fort Collins, CO.
- Braun, C. E. 1994. Memorandum dated Oct. 21, 1994 to Those Interested re Sage grouse investigations, Crawford Area, 1994. Div. Wildlife, State of Colo.
- Braun, C. E. 1995a. Distribution and status of sage grouse in Colorado. *Prairie Natur* 27: 1-9.
- Braun, C. E. 1995b. Memorandum dated Feb. 13, 1995 to "Those Interested" re Hunting and sage grouse. Colo. Div. of Wildlife.
- Braun, C. E. 1995c. Memorandum dated July 10, 1995 to those interested re sage grouse investigations, Cimarron to Montrose, Spring 1995. Colo. Div. Wildlife. Attached to Potter 1995 as a cover memo.
- Braun, C. E. 1995d. Memorandum dated June 12, 1995 to "The File" re Small Game Regulations. Colo. Div. of Wildlife.
- Braun, C. E. 1995e. Memorandum dated Feb. 13, 1995 re Predation and Sage Grouse. Colo. Div. Wildlife.
- Braun, C. E. 1995f. Memorandum dated July 24, 1995 to Bob Towry re Sage grouse habitat Miramonte reservoir area. Colo. Div. Wildlife.
- Braun, C. E. 1995g. Memorandum dated Jan. 24, 1995 to Doug Homan re Crawford area sage grouse. Div. Wildlife, State of Colo.
- Braun, C. E. 1995h. Letter to David Lehmann. BLM.
- Braun, C. E. 1995i. Letter to Sue Moyer/Ron Lambeth. BLM.
- Braun, C. E. 1996a. Letter dated Feb. 12, 1996 to Clyde B. Johnson. Colorado Div. Wildlife, Wildlife Res. Ctr. Ft. Collins, CO.
- Braun, C. E. 1996b. Memorandum dated Feb. 20, 1996 to Gunnison sage grouse rangewide interest group. Attached to Stiles 1996 as a cover memo.
- Braun, C. E. 1996c. Letter dated June 18, 1996 to Guy Wallace, Utah Div. Wildl. Resources, Monticello, Colo.
- Braun, C. E. 1996d. Memo to S. Yamashita.
- Braun, C. E. 1997a. Memorandum dated Feb. 19, 1997 to Mike McLain re Property management for sage grouse, Dry Creek Basin. Colo. Div. Wildlife.
- Braun, C. E. 1997b. Memo: sage grouse habitats, Pinon Mesa/Glade Park.
- Braun, C. E. 1997c. Memo to S. Yamashita.
- Braun, C. E. 1998a. Sage grouse declines in western North America: what are the problems? Proc. Western Assoc. State Fish and Wildl. Agencies 78: (in press).
- Braun, C. E. 1998b. Tebuthiuron (Spike 20P). Article for *Tracking Wildlife*. 1 page, hand dated.
- Braun, C. E. 1998c. Management of sagebrush steppe for sage grouse. Unpublished report, dated Nov. 11, 1998. 4 pages.
- Braun, C. E. 1998d. Management of sagebrush steppe for sage grouse.
- Braun, C. E. 1998e. CDOW memo.

- Braun, C. E. 1999a. Electronic mail transmission (Email) to Jasper Carlton, Director of the Biodiversity Legal Fund dated Sept. 27, 1999 re "Letter of 16 August 1999." This Email sets forth Dr. Braun's most recent expert opinion on the endangerment of the Gunnison sage grouse and the threats to its existence.
- Braun, C. E. 1999b. Letter dated Feb. 18, 1999 to Ken Stahlnecker, National Park Service, Gunnison, Colorado.
- Braun, C. E. 1999c. Letter dated April 26, 1999 to Jasper Carlton, Biodiversity Legal Foundation. 3 pages, with Addendum.
- Braun, C. E. undated. Sage grouse population and habitat trends, 1950's-1990's: a long-term perspective. Abstract.
- Braun, C. E. (compiler). 1991c. Western states sage grouse and Columbian sharp-tailed grouse questionnaire survey, 1988-90. Western States Sage Grouse and Columbian Sharp-tailed Grouse Tech Comm.
- Braun, C. E. and D. M. Hoffman. 1979. Vulnerability and population characteristics of sage grouse in Moffat County. Fed. Aid Wildl. Restor. Proj. W-37-R-32. Colo. Div. Wildl. Fort Collins, CO
- Braun, C. E. and J. R. Young. 1995. A new species of sage grouse in Colorado. Abstract No. 23. Joint Meeting, Wilson Ornithol. Soc. and Virginia Soc. Ornithol., May 4-7, 1995, Williamsburg, VA.
- Braun, C. E. and T. D. I. Beck. 1976. Effects of sagebrush control on distribution and abundance of sage grouse. Fed. Aid Wildl. Restor. Proj. W-37-R, work plan 3, job 8a. Colo. Div. Wildl. Fort Collins, CO.
- Braun, C. E. and T. D. I. Beck. 1983. Effects of changes in hunting regulations on sage grouse harvest and populations. Proc. Game Harvest Symp. 3: 335-340. Kingsville, TX.
- Braun, C. E. and T. D. I. Beck. 1985. Effects of changes in hunting regulations on sage grouse harvest and populations. Pages 335-343 IN S. L. Beasom and S. F. Robertson (eds.) Game harvest management: Proc. 3<sup>rd</sup> Intl. Symp. Caesar Kleberg Res. Inst. Kingsville, TX.
- Braun, C. E. and T. D. I. Beck. 1996. Effects of research on sage grouse management. Trans. North Amer. Wildlife and Natural Resources Conf. 61: 429-436.
- Braun, C. E. and W. B. Willers. 1967. The helminth and protozoan parasites of North American sage grouse (Family: Tetraonidae): a checklist. Avian Diseases 11: 170-187.
- Braun, C. E., K. M. Giesen, R. W. Hoffman, T. E. Remington, W. D. Snyder. 1991. Upland bird management analysis guide. Colorado Div. Wildlife. Denver, CO. 90 pages (draft).
- Braun, C. E., K. M. Giesen, R. W. Hoffman, T. E. Remington, W. D. Snyder. 1994. Upland bird management analysis guide, 1994-1998. Colorado Div. Wildl. Fort Collins, CO. 107 pages.
- Braun, C. E., K. Martin, T. E. Remington, J. R. Young. 1994. North American grouse: issues and strategies for the twenty-first century. Trans. North Amer. Wildlife and Natural Res. Conf. 59: 428-438.
- Braun, C. E., [et al.]. 1978. Management of National Wildlife Refuges in the United States: its impact on birds. Wilson Bull. 90: 309-321.

- Braun, C. E., M. F. Baker, R. L. Eng, J. S. Gashwiler, M. H. Schroeder. 1976. Conservation committee report on the effects of alteration of sagebrush communities on the associated avifauna. *Wilson Bull.* 88: 165-171.
- Braun, C. E., T. Britt, R. O. Wallestad. 1977. Guidelines for maintenance of sage grouse habitats. *Wildl. Soc. Bull.* 5: 99-106.
- Braun, C. W. 1999. CDOW memo.
- Braun, C. W. 1999. Letter to D. C. Carlton.
- Brown, J. D. and S. K. Robinson. 1996. Source-sink population dynamics may complicate the interpretation of long-term census data. *Ecology* 77: 3-12.
- Bray, M. 1981. Sage grouse sightings on Fruitland Mesa during the winter of 1981. 2 pages; dated 3/81.
- BRD (Biological Resources Division). 1996. Strategic science plan. USDI – Geol. Survey. Reston, VA.
- Breckerton, P. R. and A. L. A. Middleton. 1982. Effects of dietary protein levels on ruffed grouse reproduction. *J. Wildl. Manage.* 46: 569-579.
- Breslow, N. E. and D. G. Clayton. 1991. Approximate inference in generalized linear mixed models.
- Breslow, N. E. and N. E. Day. 1980. Statistical methods in cancer research. Vol 1. The analysis of case-control studies. Intl. Agency for Research on Cancer (WHO). Scientific Public. No. 32. Lyon, France.
- Brewer, T. M. 1857. NORTH AMERICAN OOLOGY. Publ. 89. Smithsonian Inst. Washington, DC.
- Brewer, T. M. 1872. Colorado birds reported by C. E. H. Aiken. *Proc. Boston Soc. Natur. Hist.* 15: 193-210.
- Bridgewater, P. B. 1993. Landscape ecology, geographic information systems and nature conservation. Pages 23-35 IN R. Haines-Young, D. R. Green, S. Cousins (eds.). LANDSCAPE ECOLOGY AND GEOGRAPHIC INFORMATION SYSTEMS. Taylor & Francis. New York, NY.
- Briggs, H. E. 1934. The development and decline of open ranching in the Northwest Mississippi Valley Hist. Rev. 20: 521-536.
- Brigham, C. 1995a. Sage grouse investigations: Dry Creek Basin/Miramonte reservoir, San Miguel county, Colorado. W-167-R; dated June 1995.
- Brigham, C. A. 1995b. Sage grouse investigations: Dry Creek Basin/Miramonte mesa, San Miguel county, Colorado. W-167-R; dated August 1995.
- Britt, T. 1971. 1970 sage grouse spot report and summary of Big Horn Basin sage grouse information, 1970 ringnecked pheasant, 1970 chukar partridge, 1970 forest grouse, 1970 wild turkey. Wyoming Game and Fish Commission, Game Division, District II. Cheyenne, WY.
- Britt, T. 1972. 1971 ringneck pheasant, 1971 chukar partridge, 1971 forest grouse, 1971 sage grouse, 1971 wild turkey. Wyoming Game and Fish Commission, Game Division, District II. Cheyenne, WY.
- Britt, T. 1974. Wild turkey, chukar partridge, sage grouse, forest grouse, pheasant. Wyoming Game and Fish Dept., Game Division. Cheyenne, WY.

- Britton, C. M. and R. G. Clark. 1985. Effects of fire on sagebrush and bitterbrush. Pages 22-26 IN IN K. Sanders, J. Durham, [et al.] (eds.). Proc. Rangeland Fire Effects: A Symposium; Nov. 27-29, 1984, Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- Brooks, A. C. 1930. The specialized feathers of the sage hen. *Condor* 32: 205-207.
- Browers, H. W. 1981. Dispersal of sage grouse from the test reactor area of the Idaho National Engineering Laboratory. *Trans. West. States Sage Grouse Workshop* 12: 11-12.
- Browers, H. W. 1983. Dispersal and harvest of sage grouse utilizing the Test Reactor Area on the Idaho National Engineering Laboratory. M.S. thesis, Wildlife and Fisheries Sciences Dept., South Dakota State Univ. Brookings, SD. 36 pages.
- Browers, H. W. and J. W. Connelly. 1986. Capturing sage grouse with mist nets. *Prairie Natur.* 18(3): 185-188.
- Brown, B. A. 1991. Landscape protection and the Nature Conservancy. Pages 61-71 IN W. E. Hudson (ed.). *LANDSCAPE LINKAGES AND BIODIVERSITY*. Defenders of Wildlife. Island Press. Washington, DC. 194 pages.
- Brown, D. E. 1978. Grazing, grassland cover and gamebirds. Pages 477-485 IN *Trans. North Amer. Wildlife Conf. and Nat. Res. Conf.* 43:477-485.
- Brown, D. E. 1997. Water for wildlife: belief before science. Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments; Nov. 13-15, 1997. Arizona State University College of Law. Tempe, AZ.
- Brown, D. E. and R. Davis. 1996. Terrestrial bird and mammal distribution changes in the American Southwest, 1890-1990. Pages 47-64 IN B. Tellman, D. M. Finch, C. Edminster, R. Hamre (eds.). *The Future of Arid Grasslands: Identifying Issues, Seeking Solutions*. USDA-Forest Service, Rocky Mountain Res. Stn. Ft. Collins, CO.
- Brown, J. H. 1971. Mammals on mountaintops: nonequilibrium insular biogeography. *Amer. Natur.* 105: 467-478.
- Brown, J. H. 1984. On the relationship between distribution and abundance. *Amer. Natur.* 124: 255-279.
- Brown, J. H. and A. C. Gibson. 1983. *BIOGEOGRAPHY*. C. V. Mosby. St. Louis, MO.
- Brown, J. H. and M. V. Lomolino. 1998. *BIOGEOGRAPHY*. 2<sup>nd</sup> ed. Sinauer Assoc. Sunderland, MA.
- Brown, J. H. and W. McDonald. 1995. Livestock grazing and conservation on southwestern rangelands. *Conserv. Biol.* 9: 1644-1647.
- Brown, J. H. and W. McDonald. 1997. Historical and cultural perspectives on grazing: Reply to Dudley. *Conserv. Biol.* 11: 270-272.
- Brown, J. H., G. C. Stevens, and D. M. Kaufman. 1996. The geographic range: size, shape, and internal structure. *Ann. Rev. Ecol. Syst.* 27: 597-623.
- Brown, J. K. 1982. Fuel and fire behavior prediction in big sagebrush. Res. Paper INT- 290 USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Brown, J. L. 1964. The evolution of diversity in avian territorial systems. *Wilson Bull.* 76: 160-169.
- Brown, J. L. 1978. Avian communal breeding systems. *Ann. Rev. Ecol. Syst.* 9: 123-155.
- Brunner, J. 1905. Antics of the sage grouse. *Country Life in Amer.* 7: 399.
- Brussard, P. F., D. D. Murphy, R. F. Noss. 1992. Strategy and tactics for conserving biological diversity in the United States. *Conserv. Biol.* 6(2): 157-159.

- Bryan, K. 1925. Date of channel trenching in the arid Southwest. *Science* 62: 338-344.
- Bryant, F. C., B. E. Dahl, R. D. Pettit, C. M. Britton. 1989. Does short-duration grazing work in arid and semiarid regions? *J. Soil and Water Cons.* 44: 290-296.
- Buckhouse, J. C. and G. F. Gifford. 1976. Water quality implications of cattle grazing on a semiarid watershed in southeastern Utah. *J. Range Manage.* 29: 109-113.
- Buffington, L. C. and C. H. Herbel. 1965. Vegetational changes on a semi-desert grassland range from 1858-1963. *Ecol. Monogr.* 35: 139-164.
- Bulmer, M. G. 1974. A statistical analysis of the 10 year cycle in Canada. *J. Animal Ecol.* 43: 701-718.
- Bump, G., R. W. Darrow, F. C. Edminster, W. F. Crissey. 1947. THE RUFFED GROUSE: LIFE: HISTORY, PROPAGATION, MANAGEMENT. Holling Press. Buffalo, NY.
- Bunting, S. C. 1984. Fires in sagebrush-grass ecosystems: successional changes. Pages 7-11 IN K. Sanders, J. Durham, [et al.] (eds.). *Proc. Rangeland Fire Effects: A Symposium*; Nov. 27-29, 1984; Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- Bunting, S. C. 1985. Fire in sagebrush-grass ecosystems: successional changes. Pages 7-11 IN K. Sanders, J. Durham, [et al.] (eds.). *Proc. Rangeland Fire Effects: A Symposium*; Nov. 27-29, 1984; Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- Bunting, S. C. 1987. Use of prescribed burning in juniper and pinyon-juniper woodlands Pages 141-151 IN R. L. Everett (ed.). *Proc. Pinyon-Juniper Conf.* Gen. Tech. Rep. INT-215. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Bunting, S. C. 1994. Effects of fire on juniper woodland ecosystems in the Great Basin. Pages 53-55 IN S. B. Monsen and S. G. Kitchen (compilers). *Proc. Ecology and Management of Annual Rangelands*. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Bunting, S. C., B. M. Kilgore, C. L. Bushey. 1987. Guidelines for prescribed burning sagebrush-grass rangelands in the northern Great Basin. Gen. Tech. Rep. INT-231. USDA – Forest Service. 33 pages.
- Burger, L. D., L. W. Burger, J. Faaborg. 1994. Effects of prairie fragmentation on predation of artificial nests. *J. Wildl. Manage.* 58: 249-254.
- Burger, R. and R. Lande. 1994. On the distribution of the mean and variance of a quantitative trait under mutation-selection-drift balance. *Genetics* 138(3): 901-912.
- Burgman, M. A., H. R. Akcakaya, S. S. Loew. 1988. The use of extinction models for species conservation. *Biol. Conserv.* 43: 9-25.
- Burgman, M. A., S. Ferson, H. R. Akcakaya. 1993. RISK ASSESSMENT IN CONSERVATION BIOLOGY. Chapman & Hall. New York, NY.
- Burkett, D. W., and B. C. Thompson. 1994. Wildlife association with human-altered water sources in semiarid vegetation communities. *Cons. Biol.* 8(3): 682-690.
- Burkhardt, J. W. and E. W. Tisdale. 1976. Causes of juniper invasion in southwestern Idaho. *Ecology* 57: 472-484.
- Burkhardt, J. W. and E. W. Tisdale. 1976. Causes of juniper invasion in southwestern Idaho. *Ecology* 57: 72-84.
- Burleigh, T. D. 1971. BIRDS OF IDAHO. Caxton Printers. Caldwell, ID. 467 pages
- Burnett, L. E. 1905. The sage grouse, *Centrocercus urophasianus*. *Condor* 7: 102-105.

- Burnham, K. P., D. R. Anderson, G. C. White. 1996. Meta-analysis of vital rates of the Northern Spotted Owl. *Stud. Avian Biol.* 17: 92-101.
- Burrowclough, G. F. 1980. Gene flow, effective population sizes and genetic variance in birds. *Evolution* 34: 789-798.
- Burrowclough, G. F. 1992. Systematics, biodiversity, and conservation biology. Pages 121-143 *IN* N. Eldridge (ed.). *SYSTEMATICS, ECOLOGY AND THE BIODIVERSITY PROCESS*. Columbia Univ. Press. New York, NY.
- Burrowclough, G. F., N. K. Johnson, R. M. Zink. 1985. On the nature of genetic variation in birds. *Current Ornithology* 2: 135-154.
- Bury, R. B. and R. A. Luckenbach. 1983. Vehicular recreation in arid land dunes: biotic responses and management alternatives. Pages 207-221 *IN* R. H. Webb and H. H. Wilshier (eds.). *ENVIRONMENTAL EFFECT OF OFF-ROAD VEHICLES, IMPACT AND MANAGEMENT IN ARID REGIONS*. Springer-Verlag. New York, NY.
- Bury, R. B. and S. D. Busack. 1974. Some effects of off-road vehicles and sheep grazing on lizard populations in the Mojave desert. *Biol. Conserv.* 6: 179-183.
- Bury, R. B., R. A. Luckenbach, S. D. Busack. 1977. Effects of off-road vehicles on vertebrates in the California Desert, USA. *U.S. Fish and Wildlife Service Res. Rep.* 8: 1-23.
- Bury, R. L. 1978. Impacts of snowmobiles on wildlife. *Trans. North Amer. Wildl. Nat. Res. Conf.* 43: 149-156.
- Busby, F. E. and G. F. Gifford. 1981. Effects of livestock grazing on infiltration and erosion rates measured on chained and unchained pinyon-juniper sites in southeastern Utah. *J. Range Manage.* 34: 400-405.
- Busek, E. A. 1973. Grounds for sage grouse. *Soil Conserv.* 38: 169-170.
- Butterfield, B. R., B. Csuti, J. M. Scott. 1994. Modeling vertebrate distributions for Gap Analysis. Pages 53-68 *IN* Miller, R. I. (ed.). *MAPPING THE DIVERSITY OF NATURE*. Chapman and Hall. London, United Kingdom.
- Buttery, R. R. and P. W. Shields. 1975. Range management practices and bird habitat values *IN* Proc. Management of Forest and Range Habitats for Nongame Birds Symp.; May 6-9, 1975, Tucson, AZ.
- Byers, C. R., R. K. Steinhorst, P. R. Krausman. 1984. Clarification of a technique for analysis of utilization availability data. *J. Wildl. Manage.* 48: 1050-1053.
- Cable, D. R. 1975. Range management in the chaparral type and its ecological basis: the status of our knowledge. Res. Paper RM-155. USDA - Forest Service, Rocky Mtn. Forest and Range Exp. Stn. Fort Collins, CO.
- Caccamise, D.F. and R.S. Hedin. 1985. An aerodynamic basis for selecting transmitter loads in birds. *Wilson Bull.* 97: 306-318.
- Cade, B. S. and R. W. Hoffman. 1993. Differential migration of blue grouse in Colorado. *Auk* 110: 70-77.
- Cade, T. J. 1999. The sage grouse, icon of the high desert, can it flourish again? The Peregrine Fund, Inc. Boise, ID.

- Cadwell, L. L., J. L. Downs, C. M. Phelps, J. J. Nugent, L. Marsh, L. Fitzner. 1996. Sagebrush restoration in the shrub-steppe of south-central Washington. Pages 143-145 IN J. R. Barrow, E. D. McArthur, R. E. Sosebee, R. J. Tausch (compilers). Proc. Shrubland Ecosystem Dynamics in a Changing Environment; May 23-25, 1995; Las Cruces, NM. Gen. Tech. Rep. INT-338. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT. 275 pages.
- Cadwell, L. L., M. A. Simmons, J. J. Nugent, V. I. Cullinan. 1997. Sage grouse habitat on the Yakima Training Center: Part II. Habitat Modeling. PNNL-11758. Pacific Northwest National Laboratory. Richland, WA.
- Cadwell, L. L., M. A. Simmons, J. L. Downs, C. M. Sveum. 1994. Sage grouse on the Yakima Training Center - a summary of studies conducted during 1991 and 1992. Battelle Pacific Northwest Labs. Richland, WA. U.S. Dept. Energy. Washington, DC. 50 pages.
- Cadwell, L. L., M. A. Simmons, J. Morse. 1998. Sage grouse on the Yakima Training Center: Part I, summary of field studies conducted from 1989 to 1996. Contract No. DE-AC06-76RLO 1830. Pac. Northwest. Lab. Richland, WA.
- Cadwell, L. L., M. A. Simmons, W. R. Reid, J. J. Nugent. 1996. An analysis of sage grouse habitat change at the Yakima Training Center after the Cascade Sage Training Exercise. PNNL-10999. Pacific Northwest Laboratory. Richland, WA.
- Cain, S. A., J. A. Kodlec, D. L. Allen, R. A. Cooley, M. G. Hornocker, A. S. Leopold, F. H. Wagner. 1972. Predator Control – 1971: report to the Council on Environmental Quality and the Dept. of the Interior by the Advisory Committee on Predator Control Institute for Environmental Quality. Univ. Michigan. Ann Arbor, MI.
- Cain, S., T. Toman, J. Kropp, D. Bosman. (in press). Bison in the greater Yellowstone area status, distribution, and management. Proc. National Brucellosis Symp.; Sept. 26-28, 1994. Jackson Hole, WY.
- California Dept. Fish and Game. 1991. Residential game bird hunting. California Dept. Fish and Game. Sacramento, CA
- California Dept. Fish and Game. 1992. Special animals. California Dept. Fish and Game, Natural Diversity Data Base. Sacramento, CA.
- Call, M. W. 1979. Habitat requirements and management recommendations for sage grouse. Tech. Note. USDI-BLM, Denver Service Center. Denver, CO. 37 pages.
- Call, M. W. and C. Maser. 1985. Wildlife habitats in managed rangelands – the Great Basin of southeastern Oregon: sage grouse. Gen. Tech. Rep. PNW-187. USDA – Forest Service, Pacific Northwest Forest and Range Exp. Stn. Portland, OR. 30 pages.
- Cameron, J. and J. Abouchar. 1996. The status of the precautionary principle in international law. Pages 29-52 IN D. Freestone and E. Hay (eds.). THE PRECAUTIONARY PRINCIPLE AND INTERNATIONAL LAW: THE CHALLENGE OF IMPLEMENTATION. Kluwer Law Intl. The Hague, Netherlands.
- Campa, H. and C. Hanaburgh. 1999. A management challenge now and in the future: what to do with exotic species. Pages 203-215 IN R. K. Baydack, Henry Campa, J. B. Haufler (eds.). PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.
- Campbell, G. S. and G. A. Harris. 1977. Water relations and water use patterns for *Artemesia tridentata* Nutt. in wet and dry years. Ecology 58: 652-659.

- Campbell, R. W., N. K. Dawe, I. McTaggart-Cowen, J. M. Cooper, G. W. Kaiwer, M. C. McNall. 1990. BIRDS OF BRITISH COLUMBIA. Vol. 2. Royal British Columbia Museum. Victoria, BC, Canada. 635 pages.
- Canfield, R. H. 1941. Application of the line interception method in sampling range vegetation. *J. Forestry* 39: 388-394.
- Cannings, R. A., R. J. Cannings, S. G. Cannings. 1987. BIRDS OF THE OKANAGAN VALLEY, BRITISH COLUMBIA. Royal British Columbia Mus. Morris Printing Co. Victoria, BC, Canada. 420 pages.
- Cantrell, R. S. and C. Cosner. 1991. The effects of spatial heterogeneity in population dynamics. *J. Math. Biol.* 29: 315-338.
- Carhart, A. H. 1942. A program for more sage chickens in Colorado. Report. Colorado Game and Fish Dept. 16 pages.
- Carhart, A. H. 1954. Sagebrush is going! *Audubon Magazine* 56: 200-204.
- Carlton, D. C. 1999. Letter.
- Caro, T. M. (ed.). 1998. BEHAVIORAL ECOLOGY AND CONSERVATION BIOLOGY. Oxford Univ. Press. New York, NY.
- Caro, T. M. and M. K. Laurenson. 1994. Ecological and genetic factors in conservation: a cautionary tale. *Science* 263(5146): 485-486.
- Carothers, S. W. 1977. Importance, preservation, management of riparian habitats; an overview IN R. R. Johnson and D. A. Jones (tech. coords.) *Importance, Preservation and Management of Riparian Habitat: A Symposium*. Gen. Tech. Rep. RM-43. USDA - Forest Service.
- Carr, H. D. 1966. Preliminary findings of effects of sagebrush control on sage grouse. Colo. Coop. Wildl. Res. Unit. Tech. Paper 5. 11 pages.
- Carr, H. D. 1967a. Effects of sagebrush control on abundance, distribution and movements of sage grouse. Job Completion Rep. Proj. W-37-R-20, Job 8a. Colorado Game, Fish, Parks Dept. 106pp.
- Carr, H. D. 1967b. Effects of sagebrush spraying on abundance, distribution, and movements of sage grouse. M.S. thesis, Colorado State Univ. Fort Collins, CO.
- Carr, H. D. 1968. A literature review of effects of herbicides on sage grouse. Special report No. 138. Colorado Div. Game, Fish & Parks. Denver, CO. 16 pages.
- Carr, H. D. and F. A. Glover. 1970. Effects of sagebrush control on sage grouse. *Trans. N. Amer. Wildl. and Nat. Res. Conf.* 35: 205-215.
- Carroll, L. E. and H. H. Genoways. 1980. *Lagurus curtatus*. Mammalian Species 124: 1-6.
- Carroll, R., C. Augspurger, A. Dobson, (et al.). 1996. Strengthening the use of science in achieving the goals of the Endangered Species Act: an assessment by the Ecological Society of America. *Ecol. Applic.* 6(1): 1-11.
- Carson, H. L. and A. Templeton. 1984. Genetic revolutions in relation to speciation phenomena: the founding of new populations. *Ann. Rev. Ecol. Syst.* 15: 97-131.
- Cassidy, K. M. 1997. Land cover of Washington state: description and management. Vol. I IN K. M. Cassidy, C. E. Grue, M. R. Smith, et al. (eds.). *Washington State Gap Analysis Project Final Report*. Wash. Coop. Fish Wildlife Res. Unit. Univ. Washington. Seattle, WA.

- Cassidy, K. M., M. R. Smith, C. E. Grue, et al. 1997. Gap analysis of Washington state: an evaluation of the protection of biodiversity. Vol. V IN K. M. Cassidy, C. E. Grue, M. R. Smith, [et al.] (eds.). Washington State Gap Analysis Project Final Report. Wash. Coop. Fish Wildlife Res. Unit. Univ. Washington. Seattle, WA.
- Caswell, H. 1989. MATRIX POPULATION MODELS. Sinauer Assoc. Sunderland, MA.
- Caughley, G. and A. Gunn. 1996. CONSERVATION BIOLOGY IN THEORY AND PRACTICE. Blackwell Science. Cambridge, MA.
- CH<sub>2</sub>M-Hill. 1996. Cultural and Natural Resources Management Plan (CNRMP) for the Yakima Training Center, Washington. Final Report.
- Chandler, W. J. (ed.). 1988. AUDUBON WILDLIFE REPORT 1988/89. Academic Press. New York, NY.
- Chaney, E., W. Elmore, W. S. Platts. 1990. Livestock grazing on western riparian areas. Northwest Resource Information Center. Eagle, ID. 45 pages.
- Chaney, E., W. Elmore, W. S. Platts. 1993. Managing change: livestock grazing on western riparian areas. Northwest Resource Information Center. Eagle, ID. 31 pages.
- Chaplin, S. B. and J. Faaborg. 1988. LABORATORY MANUAL AND FIELD EXERCISES FOR ORNITHOLOGY: AN ECOLOGICAL APPROACH. Prentice-Hall. Englewood Cliffs, NJ.
- Chapman, F. M. 1916. THE HABITAT GROUPS OF NORTH AMERICAN BIRDS IN THE AMERICAN MUSEUM OF NATURAL HISTORY. 2<sup>nd</sup> ed. Amer. Museum Natural History. New York, NY.
- Chapman, H. H. 1948. Modern overgrazing of livestock as the direct cause of ruin of southwest agriculture. J. Forestry. 46(12): 929.
- Chesser, R. K. 1983. Isolation by distance: relationship to the management of genetic resources. Pages 66-77 IN C. M. Schonwald Cox, S. M. Chambers, B. MacBryde, W. L. Thomas (eds.). GENETICS AND CONSERVATION -- A REFERENCE FOR MANAGING WILD ANIMAL AND PLANT POPULATIONS. Benjamin/Cummings Publ. Co. Menlo Park, CA.
- Chesson, P. L. 1978. Predator-prey theory and variability. Ann. Rev. Ecol. Syst. 9: 23-47.
- Chico, T. and W. D. Sellers. 1979. Interannual temperature variability in the United States since 1896. Climatic Change 2: 139-147.
- Christensen, G. C. 1969. Guidelines for sagebrush control practices in sage grouse habitat in Nevada. Proc. West. States Sage Grouse Workshop 6: 157-164.
- Christensen, N. L., A. M. Bartuska, J. H. Brown, S. Carpenter, C. D'Antonio, R. Francis, J. F. Franklin, [et al.]. 1996. The report of the Ecological Society of America Committee on the Scientific Basis for Ecosystem Management. Ecol. Applic. 6(3): 665-691.
- Claire, E. W. and R. L. Storch. 1977. Streamside management and livestock grazing in the Blue Mountains of Oregon: a case study. Pages 111-128 IN J. W. Menke (ed.). Proc. Workshop on Livestock and Wildlife-Fisheries Relationships in the Great Basin; May 3-5, 1977, Sparks, NV. Spec. Publ. 3301. Univ. California Div. Agric. Sci. Univ. California. Berkeley, CA.
- Clampitt, C. A. 1993. Effects of human disturbances on prairies and the regional endemic *Aster curtis* in western Washington. Northwest-Sci. 67(3): 163-169.
- Clark, F. W. 1972. Influence of jackrabbit density on coyote population change. J. Wildl. Manage. 36: 343-356.

- Clark, L. F., H. Rahn, M. D. Martin. 1942. Sage grouse studies. Part II: seasonal and sexual dimorphic variation in the so-called "air sacs" region of the sage grouse. Wyo. Game and Fish Comm. Bull. 2: 13-27.
- Clary, W. P. 1995. Vegetation and soil responses to grazing simulation on riparian meadows. J Range Manage. 48: 18-25.
- Clary, W. P. and B. F. Webster. 1989. Managing grazing of riparian areas in the intermountain region. Gen. Tech. Rep. INT-263. USDA – Forest Service.
- Clary, W. P. and D. E. Medin. 1990. Differences in vegetation biomass and structure due to cattle grazing in a northern Nevada riparian ecosystem. Res. Pap. INT-427 USDA – Forest Service.
- Clary, W. P. and D. E. Medin. 1992. Vegetation, breeding bird, and small mammal biomass in two high-elevation sagebrush riparian habitats. Pages 100-110 IN W. P. Clary, E. D. McArthur, D. Bedunah, C. L. Wambolt (compilers). Proc. Symp. Ecology and Management of Riparian Shrub Communities. Gen. Tech. Rep. INT-289. USDA – Forest Service.
- Clary, W. P., E. D. McArthur, D. Bedunah, C. L. Wambolt (compilers). 1992. Proc. Symp. Ecology and Management of Riparian Shrub Communities. Gen. Tech. Rep. INT-289. USDA – Forest Service.
- Clary, W. P., M. B. Baker, P. F. O'Connell, T. N. Johnson and R. E. Campbell. 1974. Effects of pinyon-juniper removal on natural resource products and uses in Arizona. Res. Paper RM-128. USDA – Forest Service.
- Cleland, R. G. 1941. THE CATTLE ON A THOUSAND HILLS, 1850-1870. Henry E. Huntington Library. San Marino, CA. 327 pages.
- Cleland, R. G. 1951. THE CATTLE ON A THOUSAND HILLS. 2<sup>nd</sup> ed. Henry E. Huntington Library San Marino, CA.
- Clements, C. D. and J. A. Young. 1997. A viewpoint: rangeland health and mule deer habitat J. Range Manage. 50: 129-138.
- Clements, J. 1963. Running afowl in the sage. West. Tanager 29: 97-98.
- Clemmons, J. R. and R. Buchholz. 1997. BEHAVIORAL APPROACHES TO CONSERVATION IN THE WILD. Cambridge Univ. Press. New York, NY.
- Cleveland, W. S. 1985. THE ELEMENTS OF GRAPHING DATA. Wadsworth Publ. Monterey, CA
- Clifton, C. 1989. Effects of vegetation and land use on channel morphology. Pages 121-129 IN R. E. Gresswell, B. A. Barton, J. L. Kershner (eds). Practical Approaches to Riparian Resource Management: An Educational Workshop; May 8-11, 1989. USDI-BLM. Billings, MT.
- Clifton, N. A. 1981. Response of a prescribed fire in a Wyoming big sagebrush/bluebunch wheatgrass habitat type. M.S. thesis, Univ. Idaho. Moscow, ID. 39 pages.
- Cochran, B. 1998. Draft knapweed control plan. Yakima Training Center. Yakima, WA.
- Coggins, K. A. 1998. Relationship between habitat changes and productivity of sage grouse at Hart Mountain National Antelope Refuge, Oregon. M.S. thesis, Oregon State Univ Corvallis, OR. 61 pages.
- Cohen, F. S. 1986. HANDBOOK OF FEDERAL INDIAN LAW. Five Rings Corp. 662 pages.
- Colburn, T., F. vom Saal, A. Soto. 1993. Developmental effects of endocrine disrupting chemicals in wildlife and humans. Envtl. Health Perspectives 101: 378-384.

- Cole, D. N. 1990. Trampling disturbance and recovery of cryptogamic soil crusts in Grand Canyon National Park. *Great Basin Natur.* 50: 321-325.
- Cole, L. C. 1951. Population cycles and random oscillations. *J. Wildl. Manage.* 15: 233-252.
- Cole, L. C. 1954. Some features of random population cycles. *J. Wildl. Manage.* 18: 2-24.
- Colenso, B. E., M. S. Boyce, J. Tate. 1980. Developing criteria for reclamation of sage grouse habitat on a surface coal mine in northeastern Wyoming. Pages 27-31 IN G. A. Swanson (tech. coord.). *The Mitigation Symp.: A National Workshop on Mitigating Losses of Fish and Wildlife Habitats. Gen. Tech. Rep. RM-65.* USDA – Forest Service.
- Collar, N. J. and P. Andrew. 1988. *BIRDS TO WATCH: THE ICBP WORLD CHECKLIST OF THREATENED BIRDS.* Smithsonian Inst. Press. Washington, DC. Intl. Council for Bird Preservation. Cambridge, England.
- Collar, N. J., M. J. Crosby, A. J. Stattersfield. 1994. *BIRDS TO WATCH 2: THE WORLD LIST OF THREATENED BIRDS: THE OFFICIAL SOURCE FOR BIRDS ON THE IUCN RED LIST.* BirdLife Intl. Cambridge, England.
- Collister, A. 1970. Annotated checklist of birds of Rocky Mountain National Park and Shadow Mountain Recreational Area in Colorado. *Mus. Pictorial No. 18.* Denver Mus. Natur. Hist. 64 pages.
- Colorado MOA. 1995. Memorandum of Agreement between the State of Colorado and the Department of the Interior Concerning Programs to Manage Colorado's Declining Native Species.
- Colwell, R. K. 1974. Predictability, constancy, and contingency of periodic phenomena. *Ecology* 55: 1148-1153.
- Committee of Inquiry on Grouse Disease, Great Britain. 1911. The grouse in health and in disease, being the final report of the Committee of Inquiry on grouse disease. London, Smith, Elder & Co. London, England.
- Committee on Government Operations. 1986. Federal grazing program: all is not well on the range. U.S. GPO. Washington, DC. 74 pages.
- Commons M. L., R. K. Baydack, C. E. Braun. 1997. Gunnison sage grouse *Centrocercus minimus* use of fragmented habitats in southwestern Colorado.
- Commons, M. L. 1997. Movement and habitat use by Gunnison Sage Grouse (*Centrocercus minimus*) in southwestern Colorado. Practicum Diss., Natural Resource Inst., Univ. Manitoba. Winnipeg, Manitoba, Canada. 101 pages.
- Commons, M. L., R. K. Baydack, C. E. Braun. 1998. Sage grouse response to pinyon-juniper management. Pages 1-2 IN S. B. Monsen, R. Stevens, R. J. Tausch, R. Miller, S. Goodrich (compilers). *Proc. Ecology and Management of Pinyon-Juniper Communities within the Interior West.* USDA – Forest Service. (in press).
- Compton, B. B., R. J. Mackie, G. L. Dusek. 1988. Factors influencing distribution of white-tailed deer in riparian habitats. *J. Wildl. Manage.* 52(3): 544-548.
- Connelly, J. W. 1982. An ecological study of sage grouse in southeastern Idaho. Ph.D. Diss., Washington State Univ. Pullman, WA.
- Connelly, J. W. 1987a. Sage grouse ecology problem analysis and study plan. W-160-R-15, Subproj. No. 9. Idaho Dept. Fish and Game. 63 pages.

- Connelly, J. W. 1987b. Sage grouse ecology. Study I. Evaluate sage grouse population estimators. Job 1. Big Butte Desert sage grouse population description. Study II. Determine habitat use of transmittered sage grouse. Job 1. Determine seasonal and year-round habitat use of transmittered sage grouse. Job 2. Describe habitat used by transmittered sage grouse in the control area and prior to and after a prescribed burn in the study area. Job progress report. Wildlife research series. Project W-160-R-14. Idaho Dept. of Fish and Game.
- Connelly, J. W. 1991. Seventeenth Western States Sage and Columbian Sharp-tailed Grouse Workshop Trans. Pocatello, ID.
- Connelly, J. W. 1998. Upland bird ecology. Study 1. Sage grouse habitat and population trends in southern Idaho. Job 1. Develop a study plan. Study 2. Mortality patterns of juvenile sage grouse. Job 1. Develop a study plan. Study 3. Sage grouse response to exploitation. Job 1. Develop a study plan. Job progress report. Project W-160-R-25. Idaho Dept. of Fish and Game.
- Connelly, J. W. and C. E. Braun. 1997. Long-term changes in sage grouse *Centrocercus urophasianus* populations in western North America. Wildl. Biol. 3: 229-234.
- Connelly, J. W. and I. J. Ball. 1978. The ecology of sage grouse on the Idaho National Engineering Laboratory site. Pages 224-235 IN O. D. Markham (ed.). Ecological Studies on the Idaho National Engineering Laboratory Site, 1978 Progress Report Environ. Sci. Rep. IDO-12087. U.S. Dept. of Energy. Idaho Falls, ID. 371 pages.
- Connelly, J. W. and L. A. Doughty. 1990. Sage grouse use of wildlife water developments in southwestern Idaho. Pages 167-173 IN G. K. Tsukamoto and S. J. Stiver (eds.). Proc. Wildlife Water Development Symp.; Nov. 29-Dec. 1, 1998; Las Vegas, NV. USDI-BLM. Las Vegas, NV. 192 pages.
- Connelly, J. W. and L. Haggas. 1986. Sage grouse ecology. Study 1. Evaluate sage grouse population estimators. Job 1. Big Butte Desert sage grouse population description. Job progress report. Wildlife research series. Project W-160-R-13. Idaho Dept. of Fish and Game.
- Connelly, J. W. and O. D. Markham. 1983. Movements and radionuclide concentrations of sage grouse in southeastern Idaho. J. Wildl. Manage. 47: 169-177.
- Connelly, J. W., H. W. Browers, R. J. Gates. 1988. Seasonal movements of sage grouse in southeastern Idaho. J. Wildl. Manage. 52: 116-122.
- Connelly, J. W., K. P. Reese, R. A. Fischer, W. L. Wakkinen. 1998. Response of a sage grouse breeding population to fire in southeastern Idaho. Wildl. Soc. Bull.
- Connelly, J. W., K. P. Reese, W. L. Wakkinen, M. D. Robertson, R. A. Fischer. 1994. Sage grouse ecology, Study I. Sage grouse response to a controlled burn. Job 1. Movements, distribution, survival and reproduction of sage grouse before and after a fire. Job 2. The effects of a controlled burn on sage grouse winter and nesting habitat. Job progress report. Wildlife research series. Project W-160-R-21. Idaho Dept. of Fish and Game.
- Connelly, J. W., M. A. Schroeder, A. R. Sands, [et al.]. 1998. Guidelines for management of sage grouse populations and habitat. Idaho Dept. Fish and Game. Pocatello, ID.
- Connelly, J. W., R. A. Fischer, A. D. Apa, K. P. Reese, W. L. Wakkinen. 1993. Renesting by sage grouse in southeastern Idaho. Condor 95: 1041-1043.

- Connelly, J. W., R. Fischer, W. Wakkinen, M. Robertson. 1991. Sage grouse ecology. Study 1. Sage grouse response to a controlled burn. Job 1. Movements, distribution, survival and reproduction of sage grouse before and after a fire. Job 2. The effects of a controlled burn on sage grouse winter and nesting habitat. Job progress report. Wildlife research series. Project W-160-R-18. Idaho Dept. of Fish and Game.
- Connelly, J. W., W. J. Arthur, O. D. Markham. 1981. Sage grouse leks on recently disturbed sites. *J. Range Manage.* 34: 153-154.
- Connelly, J. W., W. L. Wakkinen, A. D. Apa, K. P. Reese. 1991. Sage grouse use of nest sites in southeastern Idaho. *J. Wildl. Manage.* 55: 521-524.
- Connelly, J. W., W. L. Wakkinen, K. P. Reese. 1989. Sage grouse nest locations: a new look at an old guideline. *Trans. West. States Sage and Sharp-tailed Grouse Workshop* 16: 10.
- Connelly, J. W., W. Wakkinen, M. Robertson, R. Fischer. 1990. Sage grouse ecology. Study 1. Sage grouse response to a controlled burn. Job 1. Movements, distribution, survival and reproduction of sage grouse before and after a fire. Job 2. The effects of a controlled burn on sage grouse winter and nesting habitat. Job progress report. Wildlife research series. Project W-160-R-17. Idaho Dept. of Fish and Game.
- Connelly, J. W., W. Wakkinen, M. Robertson, R. Fischer. 1992. Sage grouse ecology. Study I. Sage grouse response to a controlled burn. Job 1. Movements, distribution, survival and reproduction of sage grouse before and after a fire. Job 2. The effects of a controlled burn on sage grouse winter and nesting habitat. Job progress report. Wildlife research series. Project W-160-R-19. Idaho Dept. of Fish and Game.
- Conner, M. M. and G. C. White. 1999. Effects of individual heterogeneity in estimating the persistence of small populations. *Natur. Res. Modeling* 12: 109-127.
- Connolly, G. E. 1978. Predators and predator control. Pages 369-394 IN J. L. Schmidt and D. L. Gilbert (eds.). *BIG GAME OF NORTH AMERICA: ECOLOGY AND MANAGEMENT*. Stackpole Books. Harrisburg, PA.
- Connolly, G. E. and W. M. Longhurst. 1975. The effects of control on coyote populations: a simulation model. *Bull. No. 1872. Univ. Cal. Div. Agric. Sci.* 37 pages.
- Conover, W. J. 1999. *PRACTICAL NONPARAMETRIC STATISTICS*. 3<sup>rd</sup> ed. John Wiley & Sons. New York, NY. 584 pages.
- Conover, W. J. and R. L. Iman. 1981. *PRACTICAL NONPARAMETRIC STATISTICS*. 2nd ed. John Wiley and Sons. New York, NY.
- Conover, W. J. and R. L. Iman. 1981. Rank transformation as a bridge between parametric and nonparametric statistics. *Amer. Stat.* 35: 124-133.
- Conroy, M. J. 1993. The use of models in natural resource management: prediction, not prescription. *Trans. North Amer. Wildlife and Natur. Resources Conf.* 58: 509-519.
- Conroy, M. J., Y. Cohen, F. C. James, [et al.]. 1995. Parameter estimation, reliability, and model improvement for spatially explicit models of animal populations. *Ecol. Applic.* 5(1): 17-19.
- Conroy, M. J., Y. Cohen, F. C. James, Y. C. Matsinos, B. A. Maurer. 1995. Parameter estimation, reliability, and model improvement for spatially explicit models of animal populations. *Ecol. Applic.* 5: 17-19.
- Cook, C. W. and L. A. Stoddart. 1959. Physiological responses of big sagebrush to different types of herbage removal. *J. Range Manage.* 13: 14-16.

- Cook, C. W. and L. E. Harris. 1968. Nutritive value of seasonal ranges. Utah Agric. Exp. Sta. Bull. 472. Utah State. Univ. Logan, UT. 55 pages.
- Cook, J. G., T. J. Hershey, L. L. Irwin. 1994. Vegetative response to burning on Wyoming mountain-shrub big game ranges. J. Range Manage. 47: 296-302.
- Cooke, W. W. 1897. The birds of Colorado. Colorado Agric. Coll. Bull. 37, Tech. Series 2. 143 pages.
- Cooke, W. W. 1900. The birds of Colorado. A second appendix to Bull. 37. Colorado Agric. Coll. Bull. 56, Tech. Series 5: 179-239.
- Cooper, J. G. 1860. Report upon the birds collected on the survey: land birds. U.S. Pacific Railroad Explor. and Survey 12. Ch. 1., Book 2, Zoology 3: 140-226.
- Cooper, R. J. and R. C. Whitmore. 1990. Arthropod sampling methods in ornithology. Stud. Avian Biol. 13: 29-37.
- Cooperative Agreement. 1997. Cooperative Agreement for the Dove Creek Population of Gunnison Sage Grouse U.S. Fish and Wildlife Service, Region 6 and Colorado Div. Wildlife. FWS Agreement No 1448-60181-97-J183. USDI-Fish and Wildlife Service Denver, CO.
- Coperrider, A. 1991. Conservation of biodiversity on western rangelands. Pages 40-53 IN W. E. Hudson (ed.). LANDSCAPE LINKAGES AND BIODIVERSITY. Defenders of Wildlife Island Press. Washington, DC. 194 pages.
- Coperrider, A. Y. and D. S. Wilcove. 1995. Defending the desert: conserving biodiversity on BLM lands in the southwest. Environmental Defense Fund. New York, NY.
- Cooperrider, A. Y., S. Day, C. Jacoby. 1999. The bioreserve strategy for conserving biodiversity Pages 35-53 IN R. K. Baydack, Henry Campa, J. B. Haufler (eds.). PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.
- Cope, O. B. (ed.). 1979. Proc. Forum Grazing and Riparian/Stream Ecosystems. Trout Unlimited. Denver, CO. 94 pages.
- Corbley, K. P. 1996. Utah finds biodiversity gaps using GIS. Geo. Info. Systems 6: 32-36.
- Corneli, P. S. 1980. Pronghorn fawn mortality following coyote control on the National Bison Range. M.S. thesis, Univ. Montana Missoula, MT. 69 pages.
- Costello, D. F. and G. T. Turner. 1941. Vegetation changes following exclusion of livestock from grazed ranges. J. Forestry 39: 310-315.
- Cote, I. M. and W. J. Sutherland. 1997. The effectiveness of removing predators to protect bird populations. Conserv. Biol. 11(2): 395-405.
- Cottam, C. 1942. Flight and running speeds of birds. Wilson Bull. 54: 121-131.
- Cottam, W. P. 1947. Is Utah Sahara bound? Univ. Utah Bull. 37: 1-40.
- Cottam, W. P. and G. Stewart. 1940. Plant succession as a result of grazing and of meadow desiccation by erosion since settlement in 1892. J. Forestry 38: 613-626.
- Cottam, W. P. and R. R. Evans. 1945. A comparative study of the vegetation of grazed and ungrazed canyons of the Wasatch Range, Utah. Ecology 26: 171-181.
- Cotton, J. S. 1905. Range management in the state of Washington. USDA-Bureau of Plant Industry Bull. No. 75. 26 pages.
- Cotton, J. W. 1907. The improvement of mountain meadows. USDA-Bureau of Plant Industry Bull. No. 177. 29 pages.

- Coues, E. 1893. Birds of the Northwest. A handbook of the ornithology of the region drained by the Missouri river and its tributaries. USDI, U.S. Geol. Survey of Territories, Misc. Publ. 3: 400-407.
- Counts of male sage grouse on leks. 1998. Gunnison Basin. Set of unidentified charts.
- Courtwright, G. W. 1916. Courting of the sage hen. Calif. Fish and Game 2: 163.
- Cox, C. B. and P. D. Moore. 1993. BIOGEOGRAPHY: AN ECOLOGICAL AND EVOLUTIONARY APPROACH. Blackwell Scientific Publ. Boston, MA.
- Cox, G. 1993. CONSERVATION ECOLOGY: BIOSPHERE AND BIOSURVIVAL. W. C. Bown Publ. Dubuque, IA.
- Coyne, J. A. 1992. Genetics and speciation. Nature 355: 511-515.
- Crabtree, R. L., L. S. Broome, M. L. Wolfe. 1989. Effects of habitat characteristics on gadwall nest predation and nest-site selection. J. Wildl. Manage. 53: 129-137.
- Craddock, G. W. and C. L. Forsling. 1938. The influence of climate and grazing on spring-fall sheep range in southern Idaho. U.S. Dept. Agric. Tech. Bull. 600.
- Cram, D. and R. L. Patterson. 1949. The status of the sage grouse in the West. Proc. West. Assoc. States Game and Fish Comm. 29: 148-152.
- Cram, E. B. 1931. Recent findings in connection with parasites of game birds. Trans. Amer. Game Conf. 18: 243-247.
- Crase, F. T. and R. W. DeHaven. 1975. Selected bibliography on the food habits of North American blackbirds. Special scientific report - wildlife no. 192. USDI-Fish and Wildlife Service. Washington, DC.
- Crawford, J. A. and D. M. Davis. 1999. 1998 annual report: habitat use by sage grouse and response to management activities on the Sheldon National Wildlife Refuge, Nevada. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A. and M. W. Byrne. 1999. 1998 annual report: sage grouse breeding-season habitat use at Hart Mountain National Antelope Refuge. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A. 1982. Factors affecting sage grouse harvest in Oregon. Wildl. Soc. Bull. 10: 344-347.
- Crawford, J. A. 1992. Report on the 1991 grouse harvest and a summary of data collected at grouse wing bees from 1980 to 1991 in Oregon. 41 pages.
- Crawford, J. A. 1997. Importance of herbaceous vegetation to female sage grouse *Centrocercus urophasianus* during the reproductive period: a synthesis of research from Oregon, USA. Wildl. Biol. 3: 271.
- Crawford, J. A. 1999. 1998 annual report: response of Wyoming big sagebrush to prescribed fire at Hart Mountain National Antelope Refuge, Oregon. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A. 1999. Letter/outline of sage grouse studies.
- Crawford, J. A. and A. K. Delong. 1993. Habitat use and reproductive success of female sage grouse in relation to livestock grazing at Hart Mountain Antelope Refuge, Oregon. Oregon State Univ., Dept. Fisheries and Wildlife. Corvallis, OR. 18 pages.

- Crawford, J. A. and D. M. Davis. 1999. 1999 annual report: habitat use by sage grouse and response to management activities on the Sheldon National Wildlife Refuge, Nevada. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A. and A. K. Delong. 1991. Habitat use by female sage grouse during the breeding season in Oregon. Annual Report.
- Crawford, J. A. and A. K. Delong. 1992. Habitat use by female sage grouse during the breeding season in Oregon. Final Report submitted to BLM. Oregon State Univ. Corvallis, OR. 16 pages.
- Crawford, J. A. and A. K. Delong. 1993. Relationships between vegetative structure and predation rates of artificial sage grouse nests. Final Report submitted to BLM. Oregon State Univ. Corvallis, OR.
- Crawford, J. A. and B. A. McDowell. 1999. 1998 annual report: sage grouse habitat and sage grouse response to prescribed burning in Oregon. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A. and N. Swanson. 1998. Beaty's Butte allotment final report. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A. and R. S. Lutz. 1985. Sage grouse population trends in Oregon, 1941-1983. *Murrelet* 66: 69-74.
- Crawford, J. A., M. A. Gregg, M. S. Drut, A. K. Delong. 1992. Final report: habitat use by female sage grouse during the breeding season in Oregon. Oregon State Univ., BLM Coop. Res. Unit. Corvallis, OR. 83 pages.
- Crawford, J. A., M. Byrne, D. Davis. 1999. Sage grouse and prescribed fire studies field report. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. A., M. S. Drut, M. A. Gregg. 1989. Habitat use by female sage grouse during the breeding season in Oregon. Oregon State Univ., Dept. of Fisheries and Wildlife, Game Bird Research Program. Corvallis, OR.
- Crawford, J. E. 1958. Sage grouse on the Redroad. *Idaho Wildl. Rev.* 10(5): 10-11.
- Crawford, J. E. 1960. The movements, productivity, and management of sage grouse in Clark and Fremont Counties, Idaho. M.S. thesis, Univ. Idaho. Moscow, ID. 85 pages.
- Crested Valley Wildlife Management Authority. 1974. Habitat requirements for ground-nesting waterfowl and effect of grazing and other cover removal activities on nesting. CVWMA. Creston, BC, Canada.
- Cronquist, A. 1978. The biota of the intermountain region in geohistorical context. *Great Basin Natur. Memoirs* 2: 3-15.
- Cronquist, A., A. H. Holmgren, N. H. Holmgren, J. L. Reveal, P. K. Holmgren. 1977. INTERMOUNTAIN FLORA. Vol. 6. Columbia Univ. Press. New York, NY. 584 pages.
- Cronquist, A., A. H. Holmgren, N. H. Holmgren, J. L. Reveal, P. K. Holmgren. 1984. INTERMOUNTAIN FLORA. Vol. 4. New York Botanical Garden. New York, NY. 573 pages.
- Cronquist, A., A. H. Holmgren, N. H. Holmgren, J. L. Reveal, P. K. Holmgren. 1989. INTERMOUNTAIN FLORA. Vol. 3. New York Botanical Garden. New York, NY. 279 pages.

- Crow, J. F. and M. Kimura. 1970. AN INTRODUCTION TO POPULATION GENETICS THEORY. Harper & Row. New York, NY.
- Crowley, C. M. and J. W. Connelly. 1996. Sage grouse population and habitat trends in southeastern Idaho and southwestern Montana. Idaho Dept. Fish and Game. Pocatello, ID.
- Crowley, C. M. and J. W. Connelly. 1997. Trends in agriculture lands in sage grouse range in southeast Idaho and southwest Montana. Idaho Dept of Fish and Game. Pocatello, ID.
- Croxen, Fred W. 1926. History of grazing on the Tonto. Tonto National Forest, AZ. 11 pages.
- Cruickshank, A. D. and H. G. Cruickshank. 1958. 1001 QUESTIONS ANSWERED ABOUT BIRDS. Dodd, Mead and Co. New York, NY. 291 pages.
- Crumpacker, D. W. 1984. Regional riparian research and a multi-university approach to the special problem of livestock grazing in the Rocky Mountains and Great Plains. Pages 413-422 IN R. E. Warner and K. Hendrix (eds.). CALIFORNIA RIPARIAN SYSTEMS: ECOLOGY, CONSERVATION, AND PRODUCTIVE MANAGEMENT. Univ. California Press. Berkeley, CA.
- Crumpacker, D. W., S. W. Hodge, D. Friedley, W. P. Gregg. 1988. A preliminary assessment of the status of major terrestrial and wetland ecosystems on federal and Indian land in the United States. Conserv. Biol. 2: 103-115.
- Crunden, C. W. 1963. Age and sex of sage grouse from wings. J. Wildl. Manage. 27: 846-849
- Csutti, B. 1991. Conservation corridors: countering habitat fragmentation. Pages 81-90 IN W. E. Hudson (ed.). LANDSCAPE LINKAGES AND BIODIVERSITY. Defenders of Wildlife Island Press. Washington, DC. 194 pages.
- Culver, R. N. 1964. An ecological reconnaissance of the *Artemesia* steppe on the east-central Owyhee uplands of Oregon. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Curlew Valley Sage Grouse Working Group. June 30, 1999. Meeting minutes.
- Cutler, A. 1991. Nested faunas and extinction in fragmented habitats. Conserv. Biol. 5(4): 496-505.
- Daddy, F. M., J. Trlica, C. D. Bonham. 1988. Vegetation and soil water differences among big sagebrush communities with different grazing histories. Southwestern Natur. 33(4): 413-424.
- Dadkhah, M. and R. W. Griffith. 1980. Influence of vegetation, rock cover, and trampling on infiltration rates and sediment production. Water Res. Bull. 16: 979-986.
- Dale, E. 1960. THE RANGE CATTLE INDUSTRY. Univ. Oklahoma Press. Norman, OK. 207 pages
- Dalke, P. D., D. B. Pyrah, D. C. Stanton, J. E. Crawford, [et al.]. 1963. Ecology, productivity and management of sage grouse in Idaho. J. Wildl. Manage. 27: 810-841.
- Dalke, P. D., D. B. Pyrah, D. C. Stanton, J. E. Crawford, E. F. Schlatterer. 1960. Seasonal movements and breeding behavior of sage grouse in Idaho. Trans. N. Amer. Wildl. Conf. 25: 396-406.
- D'Antonio, C. M. and P. M. Vitousek. 1992. Biological invasions by exotic grasses, the grass/fire cycle, and global change. Ann. Rev. Ecol. Syst. 23: 63-87.
- Dargan, L. M. 1940. Wings over North Park, Colorado. Conserv. Comments 4(3): 1-4.
- Dargan, L. M. and R. J. Keller. 1940. Survey of 1940 North Park, Jackson County, Colorado Sage Grouse Surv. 2. Colorado Game and Fish Dept. Denver, CO. 28 pages

- Dargan, L. M., H. R. Shepard, R. N. Randall. 1942. Data on sharp-tail grouse in Moffat and Routt counties. Sage Grouse Surv. 4. Colorado Game and Fish Dept. Denver, CO 28 pages.
- Dargan, L. M., R. J. Keller, H. R. Shepard, R. N. Randall. 1942. Survey of 1941-42: food studies, parasite relations, habitat requirements, including preliminary data on sharp-tailed grouse in Moffat and Routt counties. Sage Grouse Surv. 4. Colorado Game and Fish Dept. Denver, CO
- Dasmann, R. F. 1981. WILDLIFE BIOLOGY. 2<sup>nd</sup> ed. John Wiley & Sons. New York, NY.
- Daubenmire, D. 1988. Steppe vegetation of Washington. Washington State Univ. Coop. Ext. Bull. EB 1446.
- Daubenmire, R. 1970. Steppe vegetation of Washington. Technical Bull. 62. Washington Agric. Exp. Stn. Washington State Univ. Pullman, WA.
- Daubenmire, R. 1978. PLANT GEOGRAPHY, WITH SPECIAL REFERENCE TO NORTH AMERICA. Academic Press. New York, NY.
- Daubenmire, R. F. 1940. Plant succession due to overgrazing in the *Agropyron* bunchgrass prairie of southeastern Washington. Ecology 21: 55-64.
- Daubenmire, R. F. 1942. An ecological study of the vegetation of southeastern Washington and adjacent Idaho. Ecol Monogr. 12(1): 55-79.
- Daubenmire, R. F. 1959. A canopy coverage method of vegetational analysis. Northwest Sci. 33: 43-64.
- Daubenmire, R. R. and W. E. Colwell. 1942. Some edaphic changes due to overgrazing in the *Agropyron-Poa* prairie of southeastern Washington. Ecology 23: 32-40.
- Davenport, D. W., D. B. Breshears, B. P. Wilcox, C. D. Allen. 1998. Viewpoint: sustainability of pinon-juniper ecosystems--a unifying perspective of soil erosion thresholds. J. Range Manage. 51: 231-240.
- Davis, D. Sage grouse habitat use in Nevada. USDI-Fish and Wildlife Service and Nevada Bighorns Unlimited. (initiated February 1998).
- Davis, D. E. 1952. Social behavior and reproduction. Auk 69: 171-182.
- Davis, D. E. (ed.). 1974. BEHAVIOR AS AN ECOLOGICAL FACTOR. Dowden, Hutchinson & Ross. Stroudsburg, PA.
- Davis, J. S., A. C. Nelson, K. J. Dueker. 1994. The new 'burbs': the exurbs and their implications for planning policy. J. Amer. Planning Assoc. 60: 4559.
- Davis, L., M. Brittingham, L. Garber, D. Rourke. 1991. Stream bank fencing. Extension Circular 397. Penn State, College of Agric. Sci. University Park, PA.
- Davis, N. B. 1978. Ecological questions about territorial behavior. Pages 317-350 IN J. R. Krebs and N. B. Davies (eds.). BEHAVIORAL ECOLOGY. Blackwell Sci. Publ. Oxford, England.
- Davis, O. K. 1984. Multiple thermal maxima during the Holocene. Science 225: 617-619.
- Davis, O. K. 1987. Palynological evidence for historic juniper invasion in central Arizona: a Late-Quaternary Perspective IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA - Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.

- Davitt, B. B. 1995. Book review: The Greater Yellowstone Ecosystem (Keiter, R. B. and M. S. Boyce. 1995. THE GREATER YELLOWSTONE ECOSYSTEM. Yale Univ. Press. New Haven, CT. 430 pages.). J. Range Manage. 48(3): 284.
- Dawson, W. L. 1923. THE BIRDS OF CALIFORNIA. Vol. 3. South Moulton Co. Los Angeles, CA. 2,121 pages.
- Dawson, W. R., J. D. Ligon, J. R. Murphy, J. P. Myers, D. Simberloff, J. Verner. 1987. Report of the scientific advisory panel on the spotted owl. Condor 89: 205-229.
- de Kroon, H., A. Plaisier, J. van Groenendaal, H. Caswell. 1986. Elasticity: the relative contributions of demographic parameters to population growth rate. Ecology 67: 1427-1431.
- Dealy, J. E. 1971. Habitat characteristics of the Silver Lake mule deer range. Res. Paper PNW-125. USDA – Forest Service, Pacific Northwest Forest and Range Exp. Stn. Portland, OR.
- Dealy, J. E., D. A. Leckenby, D. M. Concannon. 1981. Wildlife habitats in managed rangelands – the Great Basin of southeastern Oregon: plant communities and their importance to wildlife. GTR PNW-120. USDA – Forest Service.
- Debano, L. F. and L. J. Schmidt. 1989. Interrelationship between watershed condition and health of riparian areas in the southwestern United States. Pages 45-51 IN R. E. Gresswell, B. A. Barton., J. L. Kershner (eds). Practical Approaches to Riparian Resource Management: An Educational Workshop, May 8-11, 1989. USDI-BLM. Billings, MT.
- Deibert, P. A. 1995. Effect of parasites on sage grouse (*Centrocercus urophasianus*) mate selection. Ph.D. Diss., Univ. Wyoming. Laramie, WY.
- Deibert, P. A. W. and M. S. Boyce. 1997. Heritable resistance to malaria and the evolution of lek behaviour in sage grouse *Centrocercus urophasianus*.
- Della Sala, D. A., J. R. Strittholt, R. F. Noss, D. M. Olson. 1996. A critical role for core reserves in managing inland Northwest landscapes for natural resources and biodiversity. Wildlife Soc. Bull. 24(2): 209-221.
- Delong, A. 1994. Relationships between vegetative structure and predation of artificial sage grouse nests. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Delong, A. K., J. A. Crawford, D. C. Delong. 1995. Relationships between vegetational structure and predation of artificial sage grouse nests. J. Wildl. Manage. 59: 88-92.
- DeMarchi, R. 1975. Report and recommendations of the workshop on California bighorn sheep IN J. B. Trefethen (ed.). The Wild Sheep in Modern North America. Boone and Crockett Club and the Winchester Press. NY.
- den Boer, P. J. 1981. The survival of populations in heterogeneous and variable environment. Oecologia 50: 39-53.
- Denevan, W. M. 1992. The pristine myth: the landscape of the Americas in 1492. Ann. Assoc. Amer. Geogr. 82(3): 369-385.
- Denney, S. R. 1984. Waterfowl nesting study--Summer Lake Wildlife Management Area, 1982-84. Final report. 12 pages.
- Dennis, B. 1989. Allee effects: population growth, critical density, and the chance of extinction. Natur. Res. Model. 3: 481-538

- Dennis, B., P. L. Munholland, J. M. Scott. 1991. Estimation of growth and extinction parameters for endangered species. *Ecol. Monogr.* 61: 115-143.
- Derksen, D. V., K. S. Bollinger, D. Esler. 1992. Effects of aircraft on behavior and ecology of molting black brant near Teshekpuk Lake, Alaska. Final report. USDI-BLM. USDI-Fish and Wildlife Service, Alaska Fish and Wildl. Res. Center. Fairbanks, AK.
- DeSante, D. F. and T. L. George. 1994. Population trends in the landbirds of western North America. *Stud. Avian Biol.* 15: 173-190.
- DeSanto, R. S. and D. G. Smith. 1993. Environmental auditing: an introduction to issues of habitat fragmentation relative to transportation corridors with special reference to high-speed rail (HSR). *Environ. Manage.* 17(1): 111-114.
- Diamond, J. M. 1975a. The island dilemma: lessons of modern biogeographic studies for the design of nature reserves. *Biol. Conserv.* 7: 129-146.
- Diamond, J. M. 1975b. Assembly of species communities. Pages 342-444 IN M. L. Cody and J. M. Diamond (eds.). *ECOLOGY AND EVOLUTION OF COMMUNITIES*. Belknap Press, Harvard Univ. Cambridge, MA.
- Diamond, J. M. 1976. Island biogeography and the design of natural reserves. Pages 163-186 IN R. M. May (ed.). *THEORETICAL ECOLOGY*. Saunders. Philadelphia, PA.
- Diamond, J. M. 1984. Historic extinctions: a Rosetta stone for understanding prehistoric extinctions. Pages 824-862 IN P. S. Martin and R. G. Klein (eds.). *QUATERNARY EXTINCTIONS: A PREHISTORIC REVOLUTION*. Univ. Arizona Press. Tucson, AZ.
- Diamond, J. M. and R. M. May. 1976. Island biogeography and conservation: strategy and limitations. *Science* 193: 1027-1029.
- Directorate of Environment and Natural Resources. 1999. 1998 sage grouse lek monitoring report, Yakima Training Center. Memorandum for Record, AFZH-YT-DENR. Yakima, WA.
- District Manager. 1994. Memorandum dated Nov. 22, 1994 from District Manager, Montrose District to State Director, Colorado (CO-933) re Response to CO-94-116, Oil and gas lease stipulation for sage grouse nesting. Montrose District Office, BLM. Montrose, CO.
- Dixon, R. M., J. R. Simanton, L. J. Lane. 1978. Simple time-power functions for rainwater infiltration and runoff. Proc. 22<sup>nd</sup> Annual Meeting of the Arizona-Nevada Academy of Science, Amer. Water Res. Assoc.; April 14-15, 1978; Flagstaff, AZ.
- Dixon, W. J. (ed). 1981. *BMDP STATISTICAL SOFTWARE*. Univ. California Press. Berkeley, CA.
- Doak, D. F., P. C. Marino, P. M. Kareiva. 1992. Spatial scale mediates the influence of habitat fragmentation on dispersal success: implications for conservation. *Theor. Popul. Biol.* 41: 315-336.
- Doane, M. S. 1944. Sage grouse memories, II. *Natur. Mag.* 37: 441.
- Dobkin, D. S., A. C. Rich, W. H. Pyle. 1998. Habitat and avifaunal recovery from livestock grazing in a riparian meadow system of the northwestern Great Basin. *Conserv. Biol.* 12(1): 209-221.
- Dobkin, D. S. 1995. Management and conservation of sage grouse, denominative species for the ecological health of shrubsteppe ecosystems. USDI-BLM. Portland, OR. 26 pages.

- Dobkin, D. S. and B. A. Wilcox. 1986. Analysis of natural forest fragments: riparian birds in the Toiyabe Mountains, Nevada. Pages 293-299 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Dobler, F. C. 1994a. Shrub-steppe research project: phase one completion report. Wash. Dept. Fish and Wildlife. Ephrata, WA.
- Dobler, F. C. 1994b. Washington state shrub-steppe ecosystem studies with emphasis on the relationship between nongame birds and shrub and grass cover densities. Pages 149-161 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Dobler, F. C. and J. R. Eby. 1990. An introduction to the shrub steppe of eastern Washington: a brief appraisal of current knowledge and need. Wash. Dept. Fish and Wildl., Wildl. Manage. Div. Olympia, WA.
- Dobler, F. C., J. Eby, C. Perry, S. Richardson, M. Vander Haegen. 1996. Status of Washington's shrub-steppe ecosystem: extent, ownership, and wildlife/vegetation relationships. Wash. Dept. Fish and Wildlife, Wildl. Management Div. Olympia, WA.
- Dobson, A. P., J. P. Rodriguez, W. M. Roberts, [et al.]. 1997. Geographic distribution of endangered species in the United States. Science 275: 550-553.
- Dobzhansky, T. 1937. GENETICS AND THE ORIGIN OF SPECIES. 1st ed. Columbia Univ. Press. New York, NY.
- Dodd, N. L. and W. W. Brady. 1986. Cattle grazing influences on vegetation of a sympatric desert bighorn range in Arizona. Trans. Desert Bighorn Council 1986: 8-13.
- Doescher, P. S., R. F. Miller, S. R. Swanson, A. H. Winward. 1986. Identification of the *Artemesia tridentata* ssp. *Wyomingensis/Festuca idahoensis* habitat type in eastern Oregon. Northwest Sci. 60: 55-60.
- Dolan, C. C. 1999. The national grasslands and disappearing biodiversity: can the prairie dog save us from an ecological desert? Envl. Law 29(1): 213-234.
- Donahue, D. L. 1999. THE WESTERN RANGE REVISITED: REMOVING LIVESTOCK FROM PUBLIC LANDS TO CONSERVE NATIVE BIODIVERSITY. Univ. of Oklahoma Press. Norman, OK. 352 pages.
- Donovan, T. M., P. W. Jones, E. Annand, F. R. Thompson. 1997. Variation in local-scale edge effects: mechanisms and landscape context. Ecology 78: 2064-2075.
- Dooling, R. J. 1982. Auditory perception in birds. Pages 95-130 IN D. E. Koodsma, E. H. Miller, H. Ouellet. ACOUSTIC COMMUNICATION IN BIRDS. Vol. 1. Academic Press. New York, NY. 370 pages.
- Dore, W. G. and L. C. Raymond. 1942. Viable seeds in pasture soil and manure. Sci. Agric. 23: 69-76.
- Dormaar, J. F., S. Smoliak, W. D. Wilms. 1989. Vegetation and soil responses to short-duration grazing on fescue grasslands. J. Range Manage. 42: 252-256.
- Dorn, J. L. 1978. WYOMING ORNITHOLOGY: A HISTORY AND BIBLIOGRAPHY, WITH SPECIES AND WYOMING AREA INDEXES AND DENSITIES OF BIRDS BY BLM VEGETATION TYPE. USDI-BLM and Wyoming Game and Fish Dept. Cheyenne, WY. 369 pages.

- Dorn, J. L. and R. D. Dorn. 1990. WYOMING BIRDS. Mountain West Publ. Cheyenne, WY. 138 pages.
- Dorrance, M. J., P. J. Savage, D. E. Huff. 1975. Effects of snowmobiles on white-tailed deer. *J. Wildl. Manage.* 39(4): 987.
- Downs, J. L., W. H. Rickard, L. J. Cadwell. 1995. Restoration of big sagebrush habitat in southeastern Washington. Pages 74-77 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). *Proc. Wildland Shrub and Arid Land Restoration Symp. Gen Tech. Rep. INT-315.* USDA – Forest Service. Ogden, UT.
- Drew, F. M. 1885. On the vertical range of birds in Colorado. *Auk* 2: 11-18.
- Drickamer, L. C. and S. H. Vessey. 1992. ANIMAL BEHAVIOR: MECHANISMS, ECOLOGY, AND EVOLUTION. Wm. C. Brown Publ. Dubuque, IA.
- Drut, M. S. 1993. Habitat use and selection by sage grouse broods in southeastern Oregon. M.S. thesis, Oregon State Univ. Corvallis, OR. 44 pages.
- Drut, M. S. 1994. Status of sage grouse with emphasis on populations in Oregon and Washington. Portland Audubon Soc. Portland, OR.
- Drut, M. S., J. A. Crawford, M. A. Gregg. 1994a. Brood habitat use by sage grouse in Oregon. *Great Basin Natur.* 54: 170-176.
- Drut, M. S., W. H. Pyle, J. A. Crawford. 1994a. Technical note: diets and food selection by sage grouse chicks in Oregon. *J. Range Manage.* 47: 90-93.
- Dry Creek Basin Coordinated Resource Management Plan (DCB-CRMP). An inter-agency management plan for the Dry Creek Basin, Colo. Memorandum of Understanding (appendix G) signed 1993. 100 pages.
- Duce, J. T. 1918. The effect of cattle on the erosion of canyon bottoms. *Science* 47: 450-452
- Dudley, J. P. 1997. Paleontological and cultural perspectives on livestock grazing in southwestern rangelands: response to Brown and McDonald. *Conserv. Biol.* 11: 267-269
- Dudley, T. and M. Embury. 1995. Non-indigenous species in wilderness areas: the status and impacts of livestock and game species in designated wilderness in California. Pacific Inst. for SIDES. Oakland, CA.
- Dudley, T. L., D. C. Odion, R. K. Knapp, [et al.]. Livestock grazing impacts and the potential for riparian meadow and recovery in the Golden Trout Wilderness Area, California. (in preparation).
- Dunaway, D., S. Swanson, J. Wendel, W. Clary. 1994. The effect of herbaceous vegetation and soil texture on particle erosion of alluvial streambanks. *Geomorphology* 9: 47-57.
- Duncan, S. 1999. Science Findings 17. USDA – Forest Service, Pacific Northwest Res. Stn. Portland, OR
- Dunkle, S. W. 1977. Swainson's hawks on the Laramie Plains, Wyoming. *Auk* 94: 65-71.
- Dunn, C. P., M. L. Bowles, G. B. Rabb, [et al.]. 1997. Endangered species "hot spots." *Science* 276(5312): 513-515.
- Dunn, J. L., E. A. Blom, G. E. Watson, [et al.]. 1987. FIELD GUIDE TO THE BIRDS OF NORTH AMERICA. Natl. Geogr. Soc. Washington, DC.
- Dunn, J. L., E. Blom, G. E. Watson, [et al.]. 1987. FIELD GUIDE TO THE BIRDS OF NORTH AMERICA. Natl. Geog. Soc. Washington, DC.

- Dunn, P. O. 1984. Dispersal and recruitment of juvenile sage grouse. M.S. thesis, Colorado State Univ. Fort Collins, CO.
- Dunn, P. O. and C. E. Braun. 1985. Natal dispersal and lek fidelity of sage grouse. *Auk* 102: 621-627.
- Dunn, P. O. and C. E. Braun. 1986a. Late summer-spring movements of juvenile sage grouse. *Wilson Bull.* 98: 83-92.
- Dunn, P. O. and C. E. Braun. 1986b. Summer habitat use by adult female and juvenile sage grouse. *J. Wildlife Manage.* 50: 228-235.
- Dunning, J. B., D. J. Stewart, B. J. Danielson, [et al.]. 1995. Spatially explicit population models: current forms and future uses. *Ecol. Applic.* 5(1): 3-11.
- Durning, A. T. 1996. THE CAR AND THE CITY. Northwest Environment Watch. Seattle, WA.
- Dwernychuk, L. W. and D. A. Boag. 1972. How vegetative cover protects duck nests from egg-eating birds. *J. Wildl. Manage.* 36: 955-958.
- Dwight, J. 1900. The moult of the North American tetraonidae (Quails, partridges, and grouse). *Auk* 17: 34-51, 143-166.
- Dwire, K. A., B. A. McIntosh, J. B. Kauffman. 1999. Ecological influences of the introduction of livestock on Pacific Northwest ecosystems IN D. Gobel (ed.). ENVIRONMENTAL HISTORY OF THE PACIFIC NORTHWEST. Washington State Univ. Press. Pullman, WA.
- Eastman, D. S. and D. Jenkins. 1970. Comparative food habits of red grouse in northeast Scotland, using fecal analysis. *J. Wildl. Manage.* 34: 612-620.
- Eberhardt, L. E. and L. A. Hofmann. 1991. Sage grouse on the Yakima Training Center--a summary of studies conducted during 1989 and 1990. Battelle Pacific Northwest Labs. Richland, WA. U.S. Dept. Energy. Washington, DC. 80 pages.
- Eckert, R. E., M. K. Wood, W. H. Blackburn, F. F. Peterson. 1979. Impacts of off-road vehicles on infiltration and sediment production of two desert soils. *J. Range Manage.* 32: 394-397.
- Ecomap. 1993. National hierarchical framework of ecological units. USDA--Forest Service. Washington, DC.
- Eddleman, L. E., "Establishment and Stand Development of Western Juniper in Central Oregon IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA - Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Eddleman, L. E., P. M. Miller, R. F. Millér, P. L. Dysart. 1994. Western juniper woodlands of the pacific northwest: science assessment. Science Integration Team Assessment, unpublished manuscript prepared for the Interior Columbia Basin Management Project.
- Eddleman, L. L., P. M. Miller, R. F. Miller, P. L. Dysert. 1994. Scientific assessment of western juniper woodlands (of the Pacific northwest). Eastside Ecosystem Management Program. Environmental Impact Statement.
- Edelmann, F. B., M. J. Ulliman, M. J. Wisdom, K. P. Reese, J. W. Connelly. 1998. Assessing habitat quality using population fitness parameters: a remote sensing/GIS-based habitat-explicit population model for sage grouse. Technical report 25, no. 846. Univ. Idaho, College of Forestry, Wildlife and Range Sciences, Wildlife, Forest and Range Exp. Stn. Moscow, ID.
- Edminster, F. C. 1954. AMERICAN GAME BIRDS OF FIELDS AND FOREST. Charles Scribners Sons. New York, NY.

- Edwards, G. D. 1942. A comparative study of the leg muscles of some gallinaceous birds of the Pacific Northwest. M.S. thesis, Washington State Univ. Pullman, WA.
- Edwards, T. C., E. T. Deshler, D. Foster, G. G. Moisen. 1996. Adequacy of wildlife habitat relation models for estimating spatial distributions of terrestrial vertebrates. *Conserv Biol.* 10: 263-270.
- Efron, B. 1975. The efficiency of logistic regression compared to normal theory discriminant analysis. *J. Amer. Statistical Assoc.* 70: 892-898.
- Ehrlich, P. R. 1988. The loss of diversity: causes and consequences. Pages 21-27 IN E. O. Wilson (ed.). *BIODIVERSITY*. Natl. Academy Press. Washington, DC.
- Ehrlich, P. R. and A. H. Ehrlich. 1981. *EXTINCTIONS: THE CAUSES AND CONSEQUENCES OF THE DISAPPEARANCE OF SPECIES*. Random House. New York, NY.
- Ehrlich, P. R. and E. O. Wilson. 1991. Biodiversity studies: science and policy. *Science* 253: 758-762.
- Ehrlich, P. R. and H. A. Mooney. 1983. Extinction, substitution, and ecosystem services. *BioScience* 33(4): 248-252.
- Ehrlich, P. R. and P. H. Raven. 1969. Differentiation of populations. *Science* 165: 1228-1232.
- Ehrlich, P. R., D. S. Dobkin, D. Wheye. 1988. *THE BIRDER'S HANDBOOK: A FIELD GUIDE TO THE NATURAL HISTORY OF NORTH AMERICAN BIRDS*. Simon and Schuster. New York, NY.
- Eisner, T., J. Lubchenko, E. O. Wilson, [et al.]. 1995. Building a scientifically sound policy for protecting endangered species. *Science* 268: 1231-1232.
- Eissenstat, D. M. and M. M. Caldwell. 1988. Competitive ability is linked to rates of water extraction: a field study of two aridland tussock grasses. *Oecologia* 75: 1-7.
- Eissenstat, D. M., J. E. Mitchell, W. W. Pope. 1982. Trampling damage by cattle on northern Idaho forest plantations. *J. Range Manage.* 35(6): 715-716.
- Ellis, D. H., C. H. Ellis, D. P. Mindell. 1991. Raptor responses to low-level jet aircraft and sonic booms. *Environ. Poll.* 74: 53-83.
- Ellis, J. A. and R. F. Labisky. 1966. Soft shelled eggs in a bobwhite nest. *Wilson Bull.* 78: 229.
- Ellis, K. L. 1984. Behavior of a lekking sage grouse in response to a perched golden eagle. *West. Birds* 15: 37-38.
- Ellis, K. L. 1985. Distribution and habitat selection of breeding male sage grouse in northeastern Utah. M.S. thesis, Brigham Young Univ. Provo, UT.
- Ellis, K. L. 1987. Effects of a new transmission line on breeding male sage grouse at a lek in northwestern Utah. *Trans. Western States Sage Grouse Workshop* 15: [abstract].
- Ellis, K. L., J. R. Murphy, G. H. Richins. 1987. Distribution of breeding male sage grouse in northeastern Utah. *Western Birds* 18(2): 117-122.
- Ellis, K. L., J. R. Parrish, J. R. Murphy, G. H. Richins. 1989. Habitat use by breeding male sage grouse: a management approach. *Great Basin Natur.* 49(3): 404-407.
- Ellison, L. 1960a. Influence of cattle grazing on plant succession of rangelands. *J. Amer. Soc. Agron.* 32: 289-295.
- Ellison, L. 1960b. Influence of grazing on plant succession of rangelands. *Botanical Rev.* 26: 1-78.
- Ellison, L. N. 1991. Shooting and compensatory mortality in tetraonids. *Ornis Scandinavica* 22: 229-240.

- Elman, R. 1974. THE HUNTERS FIELD GUIDE TO THE GAME BIRDS AND ANIMALS OF NORTH AMERICA. Alfred A. Knopf. New York, NY. 655 pages.
- Elmore, W. 1992. Riparian responses to grazing practices. Pages 442-457 IN R. J. Naiman (ed.) WATERSHED MANAGEMENT: BALANCING SUSTAINABILITY AND ENVIRONMENTAL CHANGE. Springer Verlag. New York, NY.
- Elmore, W. 1996. Riparian areas: perceptions in management. USDA – Forest Service, Pacific Northwest Res. Stn. Natural Resource News 6(3): 9
- Elmore, W. and B. Kauffman. 1994. Riparian and watershed systems: degradation and restoration. Pages 212-231 IN M. Vavra, W. A. Laycock, R. D. Pieper (eds.) ECOLOGICAL IMPLICATIONS OF LIVESTOCK HERBIVORY IN THE WEST. Soc. Range Manage. Denver, CO.
- Elmore, W. and R. L. Beschta. 1987. Riparian areas: perceptions in management. Rangelands 9: 260-265.
- Emerson, K. C. 1951. A list of Mallophaga from gallinaceous birds of North America. J. Wildl. Manage. 15: 193-195.
- Emmerich, W. E. 1985. Tebuthiuron -- environmental concerns. Rangelands 7: 14-16
- Emmons, S. R. 1980. Lek attendance of male sage grouse in North Park, Colorado. M.S. thesis, Colorado State Univ. Fort Collins, CO.
- Emmons, S. R. and B. E. Peterson. 1979. Telemetry investigations of sage grouse in North Park, Colorado. Proc. Intl. Conf. Wildl. Biotelemetry 2: 215-218.
- Emmons, S. R. and C. E. Braun. 1980. Breeding season movements and habitat selection of male sage grouse in North Park, Colorado. J. Colo.-Wyo. Acad. Sci. 12(1): 36.
- Emmons, S. R. and C. E. Braun. 1984. Lek attendance of male sage grouse. J. Wildlife Manage. 48(3): 1023-1028.
- Endler, J. A. 1977. GEOGRAPHIC VARIATION, SPECIATION, AND CLINES. Princeton Univ. Press. Princeton, NJ.
- Endler, J. A. 1982. Problems in distinguishing historical from ecological factors in biogeography. Amer. Zool. 22: 441-452.
- Endler, J. A. 1988. Sexual selection and predation risk in guppies. Nature Lond. 332: 593-594.
- Eng, R. L. 1952a. A two-summer study of the effects of bird populations of Chlordane bait and Aldrin spray as used for grasshopper control. J. Wildl. Manage. 16: 326-337.
- Eng, R. L. 1952b. Population trends and breeding potential studies. Mont. Fish and Game Dept. and Mont. Agric. Exper. Stn. Tech. Bull. No. 1. 35 pages.
- Eng, R. L. 1954. Use of aerial coverage in sage grouse strutting ground counts. Proc. West. Assoc. State. Game and Fish Comm. 34: 231-233.
- Eng, R. L. 1955a. A method for obtaining sage grouse age and sex ratios from wings. J. Wildl. Manage. 19: 267-272.
- Eng, R. L. 1955b. Wildlife investigations. Job completion report project W-74-R-1, Job 3.1. Mont. Fish and Game Dept. 6 pages.
- Eng, R. L. 1961. Sage grouse--spring strutting activity. Naturalist 2(2): 15-20.
- Eng, R. L. 1962. Molt study of sage grouse: Symp. of range and forest grouse. Ann. Meeting of the Northwest Sect. Wildlife Soc.; April 27-28, 1962. Mont. State Univ. Missoula, MT.
- Eng, R. L. 1963. Observations of the breeding biology of male sage grouse. J. Wildl. Manage. 27: 841-846.

- Eng, R. L. 1971. Two hybrid sage grouse x sharp-tailed grouse from central Montana. Condor 73: 491-493.
- Eng, R. L. 1973. Inter-strutting ground movements of sage grouse hens in Central Montana. Proc. West. States Sage Grouse Workshop 8: 45-56.
- Eng, R. L. 1986. Upland game birds. Pages 407-428 IN A. Y. Cooperrider, R. J. Boyd, H. R. Stuart (eds.). INVENTORY AND MONITORING WILDLIFE HABITAT. USDI-BLM.
- Eng, R. L. and P. Schladweiler. 1967. Ecological effects of chemical and mechanical sagebrush control. Job completion report project W-105-R-2, Job B-1. Mont. Fish and Game Dept. 8 pages.
- Eng, R. L. and P. Schladweiler. 1972. Sage grouse winter movements and habitat use in central Montana. J. Wildl. Manage. 36: 141-146.
- Eng, R. L. and S. Knapp. An assessment of the potential impact on sage grouse (*Centrocercus urophasianus*) of disrupting a single strutting ground.
- Eng, R. L. and T. W. Mussehl. 1960. Unpublished data. Montana Fish and Game Dept
- Eng, R. L., E. J. Pitcher, S. J. Scott, R. J. Greene. 1979. Minimizing the effect of surface coal mining on a sage grouse population by a directed shift of breeding activities. Pages 464-468 IN G. A. Swanson (tech. coord.). The Mitigation Symp.: A National Workshop on Mitigating Losses of Fish and Wildlife Habitats. Gen. Tech. Rep. RM-65. USDA - Forest Service.
- Engen, S. and R. Lande. 1996. Population dynamic models generating species abundance distributions of the gamma type. J. Theor. Biol. 178(3): 325-331.
- Engen, S., R. Lande, B.-E. Saether. 1997. Harvesting strategies for fluctuating populations based uncertain population estimates. J. Theor. Biol. 186(2): 201-212.
- Ensminger, M. E. 1983. THE STOCKMAN'S HANDBOOK. 6<sup>th</sup> ed. Interstate Printers and Publ. Danville, IL. 1192 pages.
- Enyeart, G. W. 1956. Responses of sage grouse to grass reseeding in the Pines Area, Garfield County, Utah. M.S. thesis, Utah State Univ. Logan, UT.
- Erb, J. D. and M. S. Boyce. 1999. Comments – distribution of population declines in large mammals. Conserv. Biol. 13(1): 199-201.
- Errington, P. L. 1945. Some contributions of a fifteen-year local study of the northern bobwhite to a knowledge of population phenomena. Ecol. Monogr. 15: 1-34.
- Erritzoe, J. 1993. THE BIRDS OF CITES AND HOW TO IDENTIFY THEM. Lutterworth Press. Cambridge, England.
- Esler, D. and J. B. Grand. 1993. Factors influencing depredation of artificial duck nests. J. Wildl. Manage. 57: 244-248.
- Estes, J. A. 1995. Top-level carnivores and ecosystem effects: questions and approaches. Pages 151-158 IN C. G. Jones and J. H. Lawton (eds.). LINKING SPECIES AND ECOSYSTEMS. Chapman and Hall. New York, NY.
- Eustace, C. 1995. Sage grouse: they used to darken the skies. Montana Outdoors 26(5): 23-27.
- Evanko, A. B. and R. A. Peterson. 1955. Comparisons of protected and grazed mountain rangelands in southwestern Montana. Ecology 36: 71-83.
- Evans, C. C. 1986. The relationship of cattle grazing to sage grouse use of meadow habitat on the Sheldon National Wildlife Refuge. M.S. thesis, Univ. Nevada. Reno, NV.

- Evans, H. E. 1997. THE NATURAL HISTORY OF THE LONG EXPEDITION TO THE ROCKY MOUNTAINS (1819-1820). Oxford Univ. Press. New York, NY.
- Evans, R. A. 1980. Establishment of barbwire Russian thistle in desert environments. *J. Range Manage.* 33: 169-73.
- Evans, R. A. 1988. Management of pinyon-juniper woodlands. Gen. Tech. Rep. INT-249 USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 34 pages.
- Evans, R. A. and J. A. Young. 1970. Plant litter and establishment of alien annual species in rangeland communities. *Weed Sci.* 18: 697-703.
- Evans, R. A., and J. A. Young. 1987. Control, plant succession, and revegetation in western juniper woodlands IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Evans, S. G. and J. P. Workman. 1994. Optimization of range improvements on sagebrush and pinyon-juniper sites. *J. Range Manage.* 47: 159-164.
- Everett, R. L. 1987a. Plant response to fire in the pinyon-juniper zone. Pages 152-157 IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Everett, R. L. (ed.). 1987b. Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Everett, R. L. and W. Clary. 1985. Fire effects and revegetation on juniper-pinyon woodlands. Pages 33-37 IN K. Sanders, J. Durham, [et al.] (eds.). Proc. Rangeland Fire Effects. A Symposium, Nov. 27-29, 1984; Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- Ewens, W. J. 1990. The minimum viable population size as a genetic and a demographic concept. Pages 307-316 IN J. Adalls, D. A. Lam, A. I. Herrnalin, P. E. Smouse (eds.). CONVERGENT ISSUES IN GENETICS AND DEMOGRAPHY. Oxford Univ. Press. Oxford, England.
- Ewens, W. J., P. J. Brockwell, J. M. Gani, S. I. Resnick. 1987. Minimum viable population size in the presence of catastrophes. Pages 59-68 IN M. E. Soulé (ed.). VIABLE POPULATIONS FOR CONSERVATION. Cambridge Univ. Press. New York, NY.
- Eyre, F. H. (ed). 1980. FOREST COVER TYPES OF THE UNITED STATES AND CANADA. Soc. Amer. Foresters. Washington, DC. 148 pages.
- Faaborg, J. 1988. ORNITHOLOGY: AN ECOLOGICAL APPROACH. Prentice-Hall. Englewood Cliffs, NJ.
- Faaborg, J., M. Brittingham, T. Donovan, J. Blake. 1992. Habitat fragmentation in the temperate zone: a perspective for managers. Pages 331-338 IN D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Fahrig, L. 1997. Relative effects of habitat loss and fragmentation on population extinction *J. Wildl. Manage.* 61: 603-610.
- Fahrig, L. and J. Paloheimo. 1988a. Effect of spatial arrangement of habitat patches on local population size. *Ecology* 69: 468-475.
- Fahrig, L. and J. Paloheimo. 1988b. Determinants of local population size in patchy habitats. *Theor. Popul. Biol.* 34: 194-213.

- Fahrig, L. and G. Merriam. 1985. Habitat patch connectivity and population survival. *Ecology* 66: 1762-1768.
- Falconer, D. S. 1981. QUANTITATIVE GENETICS. Longman. London, England.
- Fancy, S. G. and R. G. White. 1985. Energy expenditures by caribou while cratering in snow. *J. Wildl. Manage.* 49(4).
- Farrand, J., Jr. (ed.). 1983. AUDUBON SOCIETY MASTER GUIDE TO BIRDING. Vol. 1-3. Alfred A. Knopf. New York, NY.
- Fautin, R. W. 1946. Biotic communities of the northern desert shrub biome in western Utah. *Ecol. Monogr.* 16: 251-310.
- Feddicia, A. 1980. THE AGE OF BIRDS. Harvard Press. Cambridge, MA.
- Feist, F. G. 1968a. Breeding bird populations in relation to proposed sagebrush control in central Montana. M.S. thesis, Montana State Univ. Bozeman, MT. 41 pages.
- Feist, F. G. 1968b. Breeding-bird populations of sagebrush-grassland habitat in central Montana. *Audubon Field Notes* 22: 691-695.
- Felger, A. H. 1910. Birds and mammals of northwestern Colorado. *Univ. Colorado Studies* 7: 132-146.
- Feller, J. M. 1994. What is wrong with the BLM'S management of livestock grazing on western public lands? *Idaho Law Rev.* 30: 555-602.
- Fenner, R. L. and J. R. Bentley. 1960. A simple pyranometer for measuring soil temperatures during woodland fires. *Misc. Paper PSW-45. USDA – Forest Service.* Berkeley, CA.
- Ferguson, J. R. 1986. Staff Report dated April 16, 1986 titled Sage grouse strutting ground inventory; Green Mountain, Fruitland Mesa, and Black Ridge. Uncompahgre basin Resource Area, BLM. Montrose, CO.
- Ferguson, S. A. 1999. Climatology of the Interior Columbia River Basin. Gen. Tech. Rep. GTR-445. USDA – Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Ferson, S., L. Ginzburg, A. Silvers. 1989. Extreme event risk analysis for age-structured populations. *Ecol. Modeling* 47: 175-187.
- Fiedler, P. L. and P. M. Kareiva. 1998. CONSERVATION BIOLOGY FOR THE COMING DECADE. 2<sup>nd</sup> ed. Chapman and Hall. New York, NY. 533 pages.
- Fiedler, P. L., R. A. Leidy, R. D. Laven, [et al.]. 1993. The contemporary paradigm in ecology and its implication for endangered species conservation. *Endangered Species Update* 10: 7-12.
- Finch, D. M. 1991. Population ecology, habitat requirements, and conservation of neotropical migratory birds. Gen. Tech. Rep. RM-205. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 26 pages.
- Finerty, J. P. 1980. THE POPULATION ECOLOGY OF CYCLES IN SMALL MAMMALS: MATHEMATICAL THEORY AND BIOLOGICAL FACT. Yale Univ. Press. New Haven, CT.
- Finley, W. L. and I. Finley. 1924. Can the antelope and sage grouse be saved? *Nature Mag.* 3: 68-72.
- Fischer, R. A. and A. D. Apa. 1993. Nesting-area fidelity of sage grouse in southeastern Idaho. *Condor* 95(4): 1038-1041.
- Fischer, R. A. 1994. The effects of prescribed fire on the ecology of migratory sage grouse in southeastern Idaho. Ph.D. Diss., Univ. Idaho. Moscow, ID. 150 pages.

- Fischer, R. A., A. D. Apa, W. L. Wakkinen, K. P. Reese. 1993. Nesting-area fidelity of sage grouse in southeastern Idaho. *Condor* 95: 1038-1041.
- Fischer, R. A., K. P. Reese, J. W. Connelly. 1996a. An investigation of fire effects within xeric sage grouse brood habitat. *J. Range Manage.* 49: 194-198.
- Fischer, R. A., K. P. Reese, J. W. Connelly. 1996b. Influence of vegetal moisture content and nest fate on timing of female sage grouse migration. *Condor* 98(4): 868-872.
- Fischer, R. A., W. L. Wakkinen, J. W. Connelly. 1997. Effects of prescribed fire on movements of female sage grouse from breeding to summer ranges. *Wilson Bull.* 109: 82-91.
- Fischer, R. and J. W. Connelly. 1993. Sage grouse ecology. Study I. Sage grouse response to a controlled burn. Job 1. Movements, distribution, survival, and reproduction of sage grouse before and after a fire. Job 2. The effects of a controlled burn on sage grouse winter and nesting habitat. Job progress report. Wildlife research series. Project W-160-R-20. Idaho Dept. of Fish and Game.
- Fisher, R. A. 1958. THE GENETICAL THEORY OF NATURAL SELECTION. Dover Press. New York, NY.
- Flather, C. H., L. A. Joyce, C. A. Bloomgarden. 1994. Species endangerment patterns in the United States. Gen. Tech. Rep. RM-241. USDA – Forest Service. Fort Collins, CO.
- Flather, C. H., M. S. Knowles, I. A. Kendall. 1998. Threatened and endangered species geography. *BioScience* 48(5): 365-375.
- Fleischner, R. C. 1998. Genetics and avian conservation. Pages 29-45 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Fleischner, T. L. 1994. Ecological costs of livestock grazing in western North America. *Conserv. Biol.* 8: 629-644.
- Fleming, C. E. 1922. One-night camps versus established bed grounds on Nevada sheep ranges. Nev. Agric. Exp. Stn. Bull. 103. Univ. Nevada. Reno, NV. 21 pages.
- Flieg, G. M. 1971. North American grouse Tetraonidae as zoo exhibits. *Intl. Zoo Yearbook* 11: 219-220.
- Floyd, D. A. 1982. A comparison of three methods for estimating vegetal cover in sagebrush steppe communities. M.S. thesis, Idaho State Univ. Pocatello, ID.
- Forman, R. T. T. and M. Gordon. 1981. Patches and structural components for a landscape ecology. *BioScience* 31: 733-740.
- Forsling, C. L. 1931. A study of the influence of herbaceous plant cover on surface runoff and soil erosion in relation to grazing on the Wasatch Plateau in Utah. Tech. Bull. No. 220. USDA. Washington, DC.
- Foss, P. O. 1969. POLITICS AND GRASS: THE ADMINISTRATION OF GRAZING ON THE PUBLIC DOMAIN. Greenwood Press. New York, NY.
- Foster, R. H. 1968. Distribution of the major plant communities in Utah. Ph.D. Diss., Brigham Young Univ. Provo, UT.
- Fowler, J. M., D. Rush, J. Hawkes. 1993. Characteristics of western livestock industry. Dept. of Agric. Econ. and Agric. Business, New Mexico State Univ. Las Cruces, NM.
- Frandsen, O. A. 1985. Fire as a management tool in southeast Idaho -- a case study. Pages 85-87 IN K. Sanders, J. Durham, [et al.] (eds.). Proc. Rangeland Fire Effects: A Symposium; Nov. 27-29, 1984; Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.

- Frankham, R. 1995a. Conservation genetics. *Ann. Rev. Genetics* 29: 305-327.
- Frankham, R. 1995b. Inbreeding and extinction: a threshold effect. *Conserv. Biol.* 9: 792-799.
- Frankham, R. 1996. Relationship of genetic variation to population size in wildlife. *Conserv. Biol.* 10(6): 1500-1508.
- Franklin, I. R. 1980. Evolutionary changes in small populations. Pages 135-140 IN M. E. Soulé and B. A. Wilcox (eds.). *CONSERVATION BIOLOGY: AN EVOLUTIONARY-ECOLOGICAL PERSPECTIVE*. Sinauer Assoc. Sunderland, MA.
- Franklin, J. F. and C. T. Dyrness. 1973. Natural Vegetation of Oregon and Washington. Gen. Tech. Rep. PNW-8. USDA – Forest Service, Pacific Northwest Forest and Range Exp. Stn. Portland, OR. 417 pages.
- Franklin, J. F. and C. T. Dyrness. 1988. Natural vegetation of Oregon and Washington. Oregon State Univ. Press. Corvallis, OR. 452 pages. (reprint).
- Franklin, W. 1978. Experimental reclamation projects--dawn of a new day. *The Mining Claim* 4(3): 4-6.
- Fraser-Smith, E. B. 1977. The effect of drilling a geothermal well on the behavior and reproduction of sage grouse. Prepared for Republic Geothermal by ENVIROS. Los Altos, CA.
- Fremont, J. C. 1845. Report of the exploring expedition to the Rocky Mountains in the year 1842, and to Oregon and north California in the years 1843-44. Blair and Rives. Washington, DC. 586 pages.
- Friedel, M. H. 1991. Range condition assessment and the concept of thresholds: a viewpoint. *J. Range Manage.* 44: 422-426.
- Frischknecht, N. C. 1967. How far will halogeton spread? *J. Soil Water Conserv.* 22: 135-139.
- Frischknecht, N. C. 1975. Native faunal relationships within the pinyon-juniper ecosystem. Pages 55-65 IN *The Pinyon-Juniper Ecosystem: A Symposium*. Utah State Univ., College of Natural Resources. Logan, Utah.
- Frischknecht, N. C. 1978. Effects of grazing, climate, fire, and other disturbances on long-term productivity of sagebrush-grass ranges. Pages 633-635 IN Proc. First Intl. Rangeland Congress, Aug 14-18, 1978; Denver, CO. Soc. of Range Manage. Denver, CO. 742 pages.
- Frischknecht, N. C. and M. H. Baker. 1972. Voles can improve sagebrush rangelands. *J. Range Manage.* 25: 466-468.
- Frissell, C. A., R. K. Nawa, R. F. Noss. 1992. Is there any conservation biology in "New Perspectives?" A response to Salwasser. *Conserv. Biol.* 6(3): 461-464.
- Frissell, C. A., R. K. Nawa, R. Noss. 1992. Is there any conservation biology in "New perspectives?": a response to Salwasser. *Conserv. Biol.* 6: 461-464.
- Fuller, A. B. and B. P. Bole. 1930. Observations on some Wyoming birds. *Clev. Mus. Natur. Hist. Sci. Pub.* 1: 37-80.
- Furlow, F. B., and T. Armijo-Prewitt. 1995. Peripheral populations and range collapse. *Conserv. Biol.* 9(6): 1345.
- Gabriel, W. and R. Burger. 1994. Extinction risk by mutational meltdown: synergistic effects between population regulation and genetic drift. Pages 70-84 IN V. Loeschke and S. K. Jain (eds.). *CONSERVATION GENETICS*. Birkhauser Verlag. Basel, Switzerland.

- Gabrielson, G. W. and E. N. Smith. 1995. Physiological responses of wildlife to disturbance *IN* R. L. Knight and H. K. Cordell (eds.). WILDLIFE AND RECREATION: COEXISTENCE THROUGH MANAGEMENT AND RESEARCH. Island Press. Washington, DC.
- Gabrielson, I. N. and S. G. Jewett. 1940. BIRDS OF OREGON. Oregon State College. Corvallis, OR. (reprinted in 1970 by Dover Publ. New York, NY).
- Gadgil, M. 1971. Dispersal: population consequences and evolution. *Ecology* 52: 253-261.
- Gadgil, M. E. and W. H. Bossert. 1970. Life history consequences of natural selection. *Amer Natur.* 52: 253-261.
- Gagnon, D. and A. Nault. 1996. Population viability analysis of American ginseng and wild leek harvested in stochastic environments. *Cons. Biol.* 10: 608-621.
- Gaither, R. E. and J. C. Buckhouse. 1983. Infiltration rates of various vegetative communities within the Blue Mountains of Oregon. *J. Range Manage.* 23: 402-406.
- Galbraith, W. A. and E. W. Anderson. 1971. Grazing history of the Northwest. *J. Range Manage.* 24: 6-12.
- Galbraith, W. A. and E. W. Anderson. 1991. Grazing history of the Northwest. *Rangelands* 13(5): 213-218.
- Gallizioli, S. and W. Swank. 1958. The effects of hunting on gambel quail populations. *Trans. North Amer. Wildlife and Nat. Res. Conf.* 23: 305-319.
- Gambel, W. 1974a. Remarks on the birds observed in upper California with descriptions of new species. EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS. Arno Press. New York, NY. (reprinted in 1974 in Natural Sciences in America).
- Gambel, W. 1974b. Descriptions of new and little known birds collected in upper California. EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS. Arno Press. New York, NY. (reprinted in 1974 in Natural Sciences in America).
- Gambel, W. 1974c. Descriptions of some new and rare birds of the Rocky Mountains and California. EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS. Arno Press. New York, NY. (reprinted 1974 in Natural Sciences in America).
- Ganey, J. L. and C. M. Dargan. 1998. Avian conservation on national forest system lands: linking research and management. Pages 440-443 *IN* J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- GAO (General Accounting Office). 1988a. Public rangelands: some riparian areas restored but wide spread improvement will be slow. GAO/RCED-88-105. U.S. General Accounting Office. Washington, DC.
- GAO (General Accounting Office). 1988b. Rangeland management: more emphasis needed on declining and overstocked grazing allotments. GAO/RCED-88-80. U.S. General Accounting Office. Washington, DC.
- GAO (General Accounting Office). 1991a. Rangeland management: comparison of rangeland condition reports. GAO/RCED-91-191. U.S. General Accounting Office. Washington, DC.
- GAO (General Accounting Office). 1991b. Public land management attention to wildlife is limited. GAO/RCED-91-64. U.S. General Accounting Office. Washington, DC.
- Garber, C. 1993. Observations of Wintering Gyrfalcons. *J. Raptor Res.*

- Garcia-Ramos, G. and M. Kirkpatrick. 1997. Genetic models of adaptation and gene flow in peripheral populations. *Evolution* 51: 21-28.
- Gardarsson, A. and R. Moss. 1969. Selection of food by Icelandic ptarmigan in relation to its availability and nutritive value. Pages 47-69 IN A. Watson (ed.). British Ecological Society, No. 10. Symp. Animal Populations in Relation to Their Food Resources. Blackwell Scientific. Oxford, England.
- Gardner, J. L. 1950. Effects of thirty years of protection from grazing in desert grassland. *Ecology* 31: 44-50.
- Garrison, G. A., A. J. Bjugstad, D. A. Duncan, [et al.]. 1977. Vegetation and environmental features of forest and range ecosystems. Agric. Handbook 475. USDA – Forest Service Washington, DC. 68 pages.
- Gary, H. I., S. R. Johnson, S. L. Ponce. 1983. Cattle grazing impact on surface water quality in a Colorado front range stream. *J. Soil Water Conserv.* 38: 124-128.
- Gashwiler, J. S. 1977. Bird populations in four vegetational types in central Oregon. *Spec. Sci. Rep. – wildlife no. 205.* USDA – Forest Service.
- Gates, J. E. and L. W. Gysel. 1978. Avian nest dispersion and fledging success in field-forest ecotones. *Ecology* 59: 871-883.
- Gates, R. J. 1981. Summer use by sage grouse of irrigated agriculture in southeast Idaho. *Trans. West. States Sage Grouse Workshop* 12: 7-8.
- Gates, R. J. 1983. Sage grouse, lagomorph and pronghorn use of a sagebrush grassland burn site on the Idaho National Engineering Laboratory. M.S. thesis, Montana State Univ. Bozeman, MT.
- Gates, R. J. 1985. Observations of the formation of a sage grouse lek. *Wilson Bull.* 97: 219-221.
- Gates, R. J. and R. L. Eng. 1984. Sage grouse, pronghorn, and lagomorph use of a sagebrush-grassland burn site on the Idaho National Engineering Laboratory. Pages 220-235 IN Markham, O. D. (ed.). Idaho National Engineering Laboratory Radio Ecology and Ecology Programs: 1983 Progress Reports. U.S. Dept. Energy, Radiological Envl. Sci. Lab. Idaho Falls, ID.
- Gauthreaux, S. A. 1992. The use of weather radar to monitor long-term patterns of trans-Gulf migration in spring. Pages 96-100 IN J. M. Hagan and D. W. Johnston (eds.). *ECOLOGY AND CONSERVATION OF NEOTROPICAL MIGRANT LANDBIRDS.* Smithsonian Institution Press. Washington, DC.
- Gavin, T. A. and E. K. Bollinger. 1988. Reproductive correlates of breeding-site fidelity in bobolinks. *Ecology* 69: 96-103.
- Gedney, D. R., D. L. Azuma, C. L. Bolsinger, N. Mc Kay. Western juniper in eastern Oregon. (unpublished document).
- Geiger, R. 1965. *THE CLIMATE NEAR THE GROUND.* Harvard Univ. Press. Cambridge, MA
- Geissler, P. H. and B. R. Noon. 1981. Estimates of avian population trends from the North American Breeding Bird Survey. *Stud. Avian Biol.* 6: 42-51.
- Geist, V. 1996. *BUFFALO NATION: HISTORY AND LEGEND OF THE NORTH AMERICAN BISON.* Voyageur Press. Stillwater, MN. 144 pages.

- Gelbard, J. L. and A. J. Belsky. 1999. Contributions of livestock grazing to exotic plant invasions in rangelands of the intermountain west. *Conserv. Biol.* (submitted Jun. 15, 1999).
- George, L. T., L. C. McEwan, B. E. Petersen. 1995. Effects of grasshopper control programs on rangeland breeding bird populations. *J. Range Manage.* 48: 336-342.
- George, M. R. 1996. Creating awareness of clean water issues among private landowners. Pages 96-100 IN W. D. Edge and S. L. Olsen-Edge (ed.). *Proc. Sustaining Rangeland Ecosystems Symp.*; Aug. 29-31, 1994; La Grande, OR. Spec. Rep. 953. Blue Mountain Nat. Res. Inst. Oregon State Univ. Corvallis, OR. 213 pages.
- George, T. L., A. C. Fowler, R. L. Knight, L. C. McEwan. 1992. Impacts of a severe drought on grassland birds in western North Dakota. *Ecol. Applic.* 2:275-284.
- Gerhart, W. A. and R. A. Olson. 1982. Handbook for evaluating the importance of Wyoming's riparian habitat to terrestrial wildlife. Wyoming Game and Fish Dept. 91 pages.
- Gessaman, J. A. and G. L. Worthen. 1982. *The Effect of Weather on Avian Mortality*. Utah State University Press. Logan, UT.
- Gibbs, J. P. and J. Faaborg. 1990. Estimating the viability of Ovenbird and Kentucky Warbler populations in forest fragments. *Conserv. Biol.* 4: 193-196.
- Gibson, R. 1998. Effects of hunting on the population dynamics of two sage grouse populations in Mono county, California. *Western Sage and Columbian Sharp-tailed Grouse Workshop*.
- Gibson, R. M. 1990. Relationships between blood parasites, mating success and phenotypic cues in male sage grouse, *Centrocercus urophasianus*. *Amer. Zool.* 30: 271-278.
- Gibson, R. M. 1992. Lek formation in sage grouse: the effect of female choice on male territorial settlement. *Animal Behav.* 43: 443-450.
- Gibson, R. M. 1996a. A re-evaluation of hotspot settlement in lekking sage grouse. *Animal Behav.* 52(5): 993-1005.
- Gibson, R. M. 1996b. Female choice in sage grouse: the roles of attraction and active comparison. *Behav. Ecol. Sociobiol.* 39(1): 55-59.
- Gibson, R. M. and G. C. Bachman. 1992. The costs of female choice in a lekking bird. *Behav. Ecol.* 3(4): 300-309.
- Gibson, R. M. and J. W. Bradbury. 1985. Sexual selection in lekking sage grouse: phenotypic correlates of male mating success. *Behav. Ecol. Sociobiol.* 18: 117-123.
- Gibson, R. M. and J. W. Bradbury. 1986. Male and female mating strategies on sage grouse leks. Pages 379-398 IN D. I. Rubinstein & R. W. Wrangham (eds.). *ECOLOGICAL ASPECTS OF SOCIAL EVOLUTION*. Princeton Univ. Press. Princeton, NJ.
- Gibson, R. M. and J. W. Bradbury. 1987. Lek organization in sage grouse: variations on a territorial theme. *Auk* 104(1): 77-84.
- Gibson, R. M., J. W. Bradbury, S. L. Vehrencamp. 1991. Mate choice in lekking sage grouse revisited: the roles of vocal display, female site fidelity, and copying. *Behav. Ecol.* 2: 165-180.
- Giesen, K. M. and C. E. Braun. 1979. Renesting of white-tailed ptarmigan in Colorado. *Condor* 81: 217-218.
- Giesen, K. M. and J. W. Connelly. 1993. Guidelines for management of Columbian sharp-tailed grouse habitats. *Wildl. Soc. Bull.* 21(3).

- Giesen, K. M., T. J. Schoenberg, C. E. Braun. 1982. Methods for trapping sage grouse in Colorado. Wildl. Soc. Bull. 10: 224-231.
- Giezentanner, K. I. and W. H. Clark. 1974. The use of western harvester ant mounds as strutting locations by sage grouse. Condor 76: 218-219.
- Gifford, G. F. 1973. Runoff and sediment yields from plots on chained pinyon-juniper sites in Utah. J. Range Manage. 26: 440-443.
- Gifford, G. F. 1987. Myths and fables and the pinyon-juniper type. Pages 34-37 IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA - Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Gifford, G. L. and R. H. Hawkings. 1978. Hydrologic impact of grazing on infiltration: a critical review. Water Resources Research 14: 305-313.
- Giles, R. H. 1978. WILDLIFE MANAGEMENT. W. H. Freeman and Co. San Francisco, CA.
- Gill, D. 1990. ORNITHOLOGY. W. H. Freeman & Co. New York, NY.
- Gill, D. E. 1978. The metapopulation ecology of the red-spotted newt, *Notophthalmus viridescens* (Rafinesque). Ecol. Monogr. 48: 145-166.
- Gill, R. B. 1964. Effects of sagebrush control on the distribution and abundance of sage grouse. Colo. Coop. Wildl. Res. Unit Qtr. Rept. 18(1). 4 pages.
- Gill, R. B. 1965. Distribution and abundance of a population of sage grouse in North Park, Colorado. M.S. thesis, Colorado State Univ. Fort Collins, CO. 142 pages.
- Gill, R. B. 1965. Effects of sagebrush control on distribution and abundance of sage grouse. Job completion rep., Res. Proj. Seg. Colorado Proj. W-37-R-17, Job no. 8. Colorado Div. of Wildlife.
- Gill, R. B. 1966a. A literature review on the sage grouse. Special Report No. 6. Colorado Dept. Game, Fish, and Parks, Game Res. Div., Cooperative Wildl. Res. Unit. Denver, CO. 38 pages.
- Gill, R. B. 1966b. Weather and sage grouse productivity. Colo. Game, Fish and Parks Dept. Outdoor Facts 37. 4 pages.
- Gill, R. B. 1967. Sex, age determination of sage grouse from plumage characteristics. Colo. Game Inf. Leaflet No. 37. Colo. Div. Wildl. 4 pages.
- Gill, R. B. and F. A. Glover. 1965. Daily and seasonal movements of sage grouse. Colo. Coop. Wildl. Res. Unit, Tech. Pap. 3. 6 pages.
- Gillen, R. L., W. C. Krueger, R. F. Miller. 1984. Cattle distribution on mountain rangeland on northeastern Oregon. J. Range Manage. 37(6): 549-553.
- Gilliard, E. T. 1958. LIVING BIRDS OF THE WORLD. Doubleday and Co. Garden City, NY.
- Gilliard, E. T. 1969. Birds of paradise and bowerbirds. Nat. Hist. Press. Garden City, NY.
- Gilmer, D. S., L. M. Cowardin, R. L. Duval, L. M. Mechlin, C. W. Shaiffer, V. B. Kuechle. 1981. Procedures for the use of aircraft in wildlife biotelemetry studies. Resource Publ. 140. USDI-Fish and Wildlife Service. 19 pages.
- Gilpin, M. E. 1987. Spatial structure and population viability. Pages 125-139 IN M. E. Soulé (ed.). VIABLE POPULATIONS FOR CONSERVATION. Cambridge Univ. Press. New York, NY.
- Gilpin, M. E. 1990. Extinction of finite metapopulations in correlated environments. Pages 177-86 IN B. Shorrocks, I. R. Swingland (eds.). LIVING IN A PATCHY ENVIRONMENT. Oxford Univ. Press. Oxford, England.

- Gilpin, M. E. and I. Hanski. 1991. META-POPULATION DYNAMICS. Academic Press. New York, NY.
- Gilpin, M. E. and M. L. Soulé. 1986. Minimum viable populations: processes of species extinction. Pages 19-34 IN M. E. Soulé (ed.). CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinauer Assoc. Sunderland, MA.
- Gimelfarb, S. and R. Lande. 1994. Simulation of marker assisted selection for nonadditive traits. *Genetical Res.* 64(2): 127-136.
- Ginzburg, L. R., S. Ferson, H. R. Akcakaya. 1990. Reconstructibility of density dependence and the conservative assessment of extinction risks. *Conserv. Biol.* 4: 63-70.
- Girard, G. L. 1935. Life history, habits, and food of the sage grouse, *Centrocercus urophasianus*. M.S. thesis, Univ. Wyoming. Laramie, WY. 153 pages.
- Girard, G. L. 1936. Old Tom, the sage cock, issues a challenge to action. *Outdoor Amer.* 1(11): 4-5, 9.
- Girard, G. L. 1937. Life history, habits and food of the sage grouse, *Centrocercus urophasianus* Bonaparte. *Univ. Wyoming Publ.* 3: 1-56.
- Girard, G. L. 1938. Sage grouse and the state's conservation program. *Univ. Idaho Bull.* 33(22): 66-67.
- Gleason, H. A. and A. Cronquist. 1964. THE NATURAL GEOGRAPHY OF PLANTS. Columbia Univ. Press. 420 pages.
- Gleason, R. S. 1978. Aspects of the breeding biology of burrowing owls in southeastern Idaho. M.S. thesis, Univ. Idaho. Moscow, ID.
- Glover, F. 1967. Effects of sagebrush control on abundance, distribution and movements of sage grouse. April 1, 1966 to March 31, 1967. Project no. W-37-R-20, game bird survey; work plan no. 3, job no. 8a. 106 pages.
- Godfrey, G. A. 1975. Home range characteristics of ruffed grouse broods in Minnesota. *J. Wildl. Manage.* 39: 287-298.
- Godfrey, W. E. 1966. The birds of Canada. *Natur. Mus. Canada, Bull.* No. 203, Biol. Ser. No. 73. 428 pages.
- Goel, N. S. and N. Richter-Dyn. 1974. STOCHASTIC MODELS IN BIOLOGY. Academic Press. New York, NY.
- Goldman, L. R. 1916. U.S. Fish Wildl. Service field reports, 1860-1961. Archives Record Unit 7176. Smithsonian Inst. Washington, DC.
- Goodall, D. W. and R. A. Perry (eds.) 1979. ARIDLAND ECOSYSTEMS: STRUCTURES, FUNCTIONING, AND MANAGEMENT. Vol. 1. *Intl. Biol. Prog.* 16. Cambridge Univ. Press. Cambridge, United Kingdom.
- Goodman, D. 1987a. Considerations of stochastic demography in the design and management of biological reserves. *Natur. Res. Model.* 1: 205-234.
- Goodman, D. 1987b. The demography of chance extinction. Pages 11-34 IN M. E. Soulé (ed.). VIABLE POPULATIONS FOR CONSERVATION. Cambridge Univ. Press. New York, NY.
- Goovaerts, P. 1997. GEOSTATISTICS FOR NATURAL RESOURCES. Oxford Univ. Press. New York, NY.
- Gottfried, G., K. Severson, R. Fletcher. 1994. Forestry research. USDA-Forest Service 1994: 1-5.
- Gould, S. J. and R. F. Johnston. 1972. Geographic variation. *Ann. Rev. Ecol. Syst.* 3: 457-498.

- Graham, A. 1999. LATE CRETACEOUS AND CENOZOIC HISTORY OF NORTH AMERICAN VEGETATION. Oxford Univ. Press. New York, NY.
- Graham, V. 1999. Memo to C. Braun, re: 1999 Gunnison sage grouse lek counts – Glade Park District. (June 8, 1999)
- Graul, W. D. 1980. Grassland management and bird communities. Pages 38-47 IN R. M. DeGraff and N. G. Tilghman (eds.). Workshop Proc. Management of Western Forests and Grasslands for Nongame Birds. Gen Tech. Rep. INT-86. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Graumlich, L. J. 1993. A 1000-year record of temperature and precipitation in the Sierra Nevada. Quat. Res. 39: 249-255.
- Graumlich, L. J. and L. B. Brubaker. 1986. Reconstruction of annual temperatures (1590- 1979) for Longmire, Washington, derived from tree rings. Quat. Res. 25: 223-234.
- Gray, G. M. 1967. An ecological study of sage grouse broods with reference to nesting, movements, food habits, and sagebrush strip spraying in the Medicine Lodge drainage, Clark County, Idaho. M.S. thesis, Univ. Idaho. Moscow, ID. 200 pages.
- Grayson, D. K. 1976. A note on the prehistoric avifauna of the Lower Klamath Basin. Auk 93: 830-833.
- Green, D. M. and J. B. Kauffman. 1989. Nutrient cycling at the land-water interface: the importance of the riparian zone. Pages 61-68 IN R. E. Gresswell, B. A. Barton., J. L. Kershner (eds). Practical Approaches to Riparian Resource Management: An Educational Workshop; May 8-11, 1989. USDI-BLM. Billings, MT.
- Green, D. M. and J. B. Kauffman. 1995. Succession and livestock grazing in a northeast Oregon riparian ecosystem. J. Range Manage. 48: 307-313.
- Green, J. S. and J. T. Flinders. 1980. *Brachylagus idahoensis*. Mammalian Species 125: 1-4.
- Green, K., D. Kempka, L. Lackey. 1994. Using remote sensing to detect and monitor land-cover and land-use change. Photogr. Eng. Remote Sens. 60(3): 331-337.
- Green, R. E. 1995. Diagnosing the causes of bird population declines. Ibis 137: S47-S45.
- Greene, R. J. 1948. Statewide pheasant nest predation by magpies. Federal Aid Wildlife Restoration Project 21-R-2. Montana Fish and Game Dept.
- Greenhalgh, C. 1958. Sage chickens and civilization. Utah Fish and Game 14(7): 6.
- Greenwood, P. J. 1980. Mating systems, philopatry, and dispersal in birds and mammals. Animal Behav. 28: 1140-1162.
- Greenwood, P. J. and P. H. Harvey. 1982. The natal and breeding dispersal of birds. Ann. Rev. Ecol. Syst. 13: 1-21.
- Greenwood, R. J. and M. A. Sovada. 1996. Prairie duck populations and predation management. Pages 31-42 IN K. G. Wadsworth and R. E. McCabe (eds.). Issues and problems in predation management to enhance avian recruitment. The Berryman Institute. Logan, UT. 126 pages. (reprinted from Trans. Sixty-first North Amer. Wildl. and Nat. Res. Conf.).
- Greer, R. Sage grouse habitat requirements and development. Wyoming Game and Fish Dept., Wyoming Cooperative Fish and Wildlife Res. Unit, Habitat Extension Services. Cheyenne, WY. (unpublished document).
- Greer, T. 1979. Environmental impacts of snowmobiles: a review of the literature. Univ. Oregon. Portland, OR.

- Gregg, M. A. 1992. Use and selection of nesting habitat by sage grouse in Oregon. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Gregg, M. A. and J. A. Crawford. 1991. Use and selection of nesting habitat by sage grouse in Oregon. Western States Sage and Columbian Sharp-tailed Grouse Workshop Trans. 17.
- Gregg, M. A., J. A. Crawford, M. S. Drut, A. K. Delong. 1994. Vegetational cover and predation of sage grouse nests in Oregon. J. Wildl. Manage. 58: 162-166.
- Gregg, M. A., J. A. Crawford, M. S. Drut. 1993. Summer habitat use and selection by female sage grouse (*Centrocercus urophasianus*) in Oregon. Great Basin Natur. 53: 293-298.
- Gresswell, R. E., B. A. Barton., J. L. Kershner (eds). 1989. Practical Approaches to Riparian Resource Management: An Educational Workshop; May 8-11, 1989. USDI-BLM. Billings, MT.
- Griffith, B., J. M. Scott, J. W. Carpenter, C. Reed. 1989. Translocation as a species conservation tool: status and strategy. Science 245: 477-480.
- Griffiths, D. 1902. Forage conditions on the northern border of the Great Basin. Bull. No. 16. USDA-Bureau of Plant Industry. US GPO. Washington, DC. 60 pages.
- Griffiths, D. 1910. A protected stock range in Arizona. Bull. No. 177. USDA-Bureau of Plant Industry. 28 pages.
- Griffiths, G. H., J. M. Smith, N. Veitch, R. Aspinall. 1993. The ecological interpretation of satellite imagery with special reference to bird habitats. Pages 255-271 IN R. Haines-Young, D. R. Green, S. Cousins (eds.). LANDSCAPE ECOLOGY AND GEOGRAPHIC INFORMATION SYSTEMS. Taylor & Francis. New York, NY.
- Griggs, J. 1997. AMERICAN BIRD CONSERVANCY'S FIELD GUIDE: ALL THE BIRDS OF NORTH AMERICA. Roundtable Press, Harper Perennial. New York, NY.
- Griner, L. A. 1939. A study of the sage grouse (*Centrocercus urophasianus*), with special reference to life history, habitat requirements, and numbers and distribution. M.S. thesis, Utah State College. Logan, UT. 83 pages.
- Grinnell, J. and A. H. Miller. 1944. THE DISTRIBUTION OF THE BIRDS OF CALIFORNIA. Pacific Coast Avifauna No. 27. Cooper Ornithol. Club. Berkeley, CA. 608 pages.
- Grinnell, J., H. C. Bryant, T. W. Storer. 1918. THE GAME BIRDS OF CALIFORNIA. Univ. California Press. Berkeley, CA.
- Gross, J. E., L. C. Stoddart, F. H. Wagner. 1974. Demographic analysis of a northern Utah jack rabbit population. Wildl. Monogr. No. 40.
- Grover, G. 1944. Disease among sage grouse. Colo. Conserv. Comments 7: 14-15.
- Groves, C. R., B. Butterfield, G. Lippincott, [et al.]. 1997. ATLAS OF IDAHO'S WILDLIFE. Idaho Dept. Fish and Game. Boise, ID. 372 pages.
- Grubb, T. G. and W. W. Bowerman. 1997. Variation in breeding bald eagle responses to jets, light planes, and helicopters. J. Raptor Res. 31(3): 213-222.
- Gruell, G. E. 1985. Fire on the early western landscape: an annotated record of wildland fires 1776-1900. Northwest Sci. 59: 97-104.
- Grumbine, R. E. 1990a. Protecting biological diversity through the greater ecosystem concept. Natural Areas J. 10(3): 114-
- Grumbine, R. E. 1990b. Viable populations, reserve size, and federal lands management: a critique. Conserv. Biol. 4: 127-134.

- Guadagno, J. R. 1992. Letter dated Aug. 3, 1992 to Mr. Barry Pollefson, Bureau of Land Management, Gunnison, Colo. Mr. Guadagno wrote in his official capacity as President, Black Canyon Audubon Society.
- Gudmundsson, F. 1960. Some reflections on ptarmigan cycles in Iceland. *Proc. Intern. Ornithol. Congr.* 12: 259-265.
- Gudmundsson, F. 1972. Discussion on the tetraonid symposium. *Proc. Intern. Ornithol. Congr.* 15: 179.
- Guiguet, C. J. 1970. *BIRDS OF BRITISH COLUMBIA. VOL. 4. UPLAND GAME BIRDS.* British Columbia Provincial Museum. Victoria, BC. 47 pages.
- Gullion, G. W. 1954. Sage hen population shows steady decline in northeastern Nevada. *Nev. Fish and Game* 1(5): 14, 19.
- Gullion, G. W. 1957. Precocial strutting in sage grouse. *Condor* 59: 269.
- Gullion, G. W. 1966. A viewpoint concerning the significance of studies of game bird food habits. *Condor* 68: 372-376.
- Gullion, G. W. 1971. Factors influencing ruffed grouse populations. *Trans. North Amer. Wildl. and Nat. Res. Conf.* 35: 93-105.
- Gullion, G. W. and G. C. Christensen. 1957. A review of the distribution of gallinaceous game birds in Nevada. *Condor* 59: 128-138.
- Gunderson, D. R. 1968. Floodplain use related to stream morphology and fish populations. *J. Wildl. Manage.* 32: 507-514.
- Gunnison Sage Grouse Breeding Populations 1996-97. Anonymous and unpublished document. 1 page, attached to various other documents obtained from the Colorado BLM via Freedom of Information Act requests.
- Gunnison Sage Grouse Conservation Plan Accomplishments. 1998. Table consisting of 33 pages.
- Gunnison Sage Grouse Conservation Plan. Crawford Area, Colorado. July 22, 1998. (unpublished). (CACP).
- Gunnison Sage Grouse Conservation Plan. Dove Creek, Colorado. November 23, 1998. Final (unpublished). (DCCP).
- Gunnison Sage Grouse Conservation Plan. Gunnison Basin, Colorado. June 1997. (unpublished). (GBCP).
- Gunnison Sage Grouse Conservation Plan. San Miguel Basin, Colorado. July 17, 1998. Final (unpublished). (SMBCP).
- Gurchinoff, S. and W. L. Robinson. 1972. Chemical characteristics of jackpine needles selected by feeding spruce grouse. *J. Wildl. Manage.* 36: 80-87.
- Gurney, W. S. C. and R. M. Nisbet. 1978. Single-species population fluctuations in patchy environments. *Amer. Natur.* 112: 1075-1090.
- Gutowska, M. S. and R. T. Parkhurst. 1942. Studies in mineral nutrition of laying hens. I. The manganese requirement. *Poultry Sci.* 21: 277-287.
- Gutzwiller, K. J. 1995. Recreational disturbance and wildlife communities. Pages 169-181 IN R. L. Knight and K. J. Gutzwiller (eds.). *WILDLIFE AND RECREATIONISTS. COEXISTENCE THROUGH MANAGEMENT AND RESEARCH.* Island Press. Washington, DC.
- Gyllensten, U. 1985. Temporal allozyme frequency changes in density fluctuating populations of willow grouse. *Evolution* 39(1): 115-121.

- Hadley, N. F. and S. R. Szarek. 1981. Productivity of desert ecosystems. BioScience 31: 747-753.
- Halford, D. K. 1981. Repopulation and food habits of *Peromyscus maniculatus* on a burned sagebrush desert in southeast Idaho. Northwest Sci. 55: 44-49.
- Hall, D. B. 1998. E-mail to B. Green. BLM.
- Hall, F. 1999. Letter to D. C. Carlton.
- Hall, F. C. 1976. Fire and vegetation in the Blue Mountains--implications for land managers. Proc. Tall Timbers Fire Ecology Conf. 15: 155-170.
- Hall, F. C. 1985. Wildlife habitats in managed rangelands--the Great Basin of southeastern Oregon: management practices and options. Gen. Tech. Rep. PNW-189. USDA - Forest Service, USDI-BLM. 17 pages.
- Hall, F. C. 1994. Historical and present conditions of the Blue Mountain forests. Blue Mountain Natural Resource News. USDA - Forest Service, Pacific Northwest Res. Stn. Portland, Oregon.
- Hamerstrom, F. N. and F. Hamerstrom. 1951. Mobility of the sharp-tailed grouse in relation to its ecology and distribution. Amer. Midl. Natur. 46: 174-226.
- Hamerstrom, F. N. and F. Hamerstrom. 1954. Population density and behavior in Wisconsin Prairie chickens (*Tympanuchus cupido pinnatus*). Proc. Intern. Ornithol. Congr. 11: 459-466.
- Hamerstrom, F. N. and F. Hamerstrom. 1958. Comparability of some social displays of grouse. Proc. Intl. Ornithol. Cong. 12: 274-293.
- Hamerstrom, F. N. and F. Hamerstrom. 1961. Status and problems of North American grouse. Wilson Bull. 73(3): 284-294.
- Hamerstrom, F. N. and F. Hamerstrom. 1963. The Grouse Symposium in review. J. Wildl. Manage. 27: 869-887.
- Hamilton, W. D. and Zuk, M. 1982. Heritable true fitness and bright birds, a role for parasites? Science 218: 384-387.
- Hampton, B. 1990. Herbicide causes plants to die en masse in a Wyoming drainage. High Country News, July 30, 1990: 5.
- Hanf, J. M., P. A. Schmidt, E. B. Groshens. 1994. Sage Grouse in the High Desert of Central Oregon - Results of a Study, 1968-1993. USDI-BLM, Prineville District Office. Prineville, OR. 67 pages.
- Hann, W. J., J. L. Lyons, M. G. Karl, [et al.]. 1997. Landscape dynamics of the basin. Pages 339-1055 IN T. M. Quigley and S. J. Arbelbide (tech. eds.). An Assessment of Ecosystem Components in the Interior Columbia River Basin and Portions of the Klamath and Great Basins. Vol II. Gen. Tech. Rep. PNW-405. USDA-Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Hanna, W. C. 1936. Sage grouse breeding in California. Condor 38: 38.
- Hansen, A., D. L. Urban, B. Marks. Avian community dynamics: the interplay of landscape trajectories and species life histories.
- Hanski, I. 1982. Dynamics of regional distribution: the core and satellite species hypothesis. Oikos 38: 210-221.
- Hanski, I. 1985. Single-species spatial dynamics may contribute to long-term rarity and commonness. Ecology 66(2): 335-343.

- Hanski, I. 1991. Single-species metapopulation dynamics: concepts, models and observations. *Biol. J. Linn. Soc.* 42: 17-38.
- Hanski, I. 1994a. A practical model of metapopulation dynamics. *J. Animal Ecol.* 63: 151-162.
- Hanski, I. 1994b. Patch-occupancy dynamics in fragmented landscapes. *Trends Ecol. Evol.* 9: 131-135.
- Hanski, I. 1994c. Spatial scale, patchiness and population dynamics on land. *Philos. Trans. Royal Soc., Ser. B. Biol. Sci.* 343: 19-25.
- Hanski, I. 1998. Connecting the parameters of local extinction and metapopulation dynamics. *Oikos* 83: 390-396.
- Hanski, I. 1998. Metapopulation dynamics. *Nature* 396: 41-49.
- Hanski, I. 1999. METAPOPULATION ECOLOGY. Oxford Univ. Press. New York, NY.
- Hanski, I. and D. Y. Zhang. 1993. Migration, metapopulation dynamics and fugitive co-existence. *J. Theor. Biol.* 163: 491-504.
- Hanski, I. and M. E. Gilpin. 1996. METAPOPULATION BIOLOGY: ECOLOGY, GENETICS AND EVOLUTION. Academic Press. San Diego, CA.
- Hanski, I. and M. Gilpin. 1991. Metapopulation dynamics: brief history and conceptual domain. *Biol. J. Linn. Soc.* 42: 3-16.
- Hanski, I. and M. Gyllenberg. 1993. Two general metapopulation models and the core-satellite species hypothesis. *Amer. Natur.* 142: 17-41.
- Hanski, I., A. Moilanen, M. Gyllenberg. 1996. Minimum viable metapopulation size. *Amer. Natur.* 147: 527-541.
- Hanski, I., I. Woiwod, J. Perry. 1993. Density dependence, population persistence, and largely futile arguments. *Oecologia* 95: 595-598.
- Hanski, I., J. Joyry, M. Kuussaari. 1995. Multiple equilibria in metapopulation dynamics. *Nature* 377: 618-621.
- Hanski, I., P. Foley, M. Hassell. 1996. Random walks in a metapopulation: how much density dependence is necessary for long-term persistence? *J. Animal Ecol.* 65: 274-282.
- Hanson, H. C., L. D. Love, M. S. Morris. 1931. Effect of different systems of grazing by cattle upon western wheatgrass type of range. *Colorado Agric. Exp. Stn. Bull.* No. 377.
- Hanssen, I., J. Ness, J. B. Steen. 1982. Parental nutrition and chick production in captive willow ptarmigan (*Lagopus lagopus lagopus*). *Acta Vet. Scand.* 23: 528-538.
- Hardcastle, A. B. 1943. A check list and host index of the species of the protozoan genus *Eimeria*. *Proc. Helminth Soc. Wash.* 10: 35-69.
- Hargis, C. and C. McCarthy. 1986. Vegetation changes following a prescribed burn on a Great Basin meadow. Pages 47-51 IN *Trans. Western Section Wildlife Soc.* No. 22.
- Hargrave, C. 1946. Sage grouse in North Dakota. *N. Dakota Outdoors* 8(9): 7.
- Harniss, R. O. and N. E. West. 1973. Vegetation patterns of the National Reactor Testing Stn southeastern Idaho. *Northwest Sci.* 47: 30-43.
- Harniss, R. O. and R. B. Murray. 1973. Thirty years of vegetal change following burning sagebrush/grass range. *J. Range Manage.* 26: 322-325.
- Harniss, R. O., S. J. Harvey, R. B. Murray (compilers). 1981. A computerized bibliography of selected sagebrush species (genus *Artemisia*) in western North America. Gen. Tech. Rep INT-102. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Harper, J. L. 1977. POPULATION BIOLOGY OF PLANTS. Academic Press. New York, NY.

- Harper, K. T. and J. L. Reveal (eds.). 1978. Intermountain biogeography: a symposium. Great Basin Natur. Memoirs 2: 1-268.
- Harper, K. T. and L. L. St. Clair. 1985. Cryptogamic soil crusts on arid and semiarid rangelands in Utah: effects on seedling establishment and soil salinity. Final Report. BLM Contract #BLM AA 851-CTI-48.
- Harper, K. T., D. C. Freeman, W. K. Ostler, L. G. Klikoff. 1978. The flora of great basin mountain ranges: diversity, sources, and dispersal ecology. Great Basin Natur. Memoirs 2: 81-103.
- Harrell, F. E. 1985. The logit procedure. Pages 269-293 IN P. S. Reinhardt (ed.). SUGI SUPPLEMENTAL LIBRARY USER'S GUIDE. Version 5 ed. SAS Institute.
- Harrington, G. N. 1991. Effects of soil moisture on shrub seedling survival in a semi-arid grassland. Ecology 72(3): 1138-1149.
- Harris G. A. and M. Chaney. 1984. Washington State grazing land assessment. Washington State Cooperative Extension. Pullman, WA.
- Harris, D. R. 1966. Recent plant invasions in the arid and semi-arid Southwest of the United States. Annals Assoc. Amer. Geographers 56: 408-422.
- Harris, G. A. 1991. Grazing lands of Washington State. Rangelands 13(5): 222-227.
- Harris, L. D. 1984. THE FRAGMENTED FOREST. Univ. Chicago Press. Chicago, IL.
- Harris, R. B., L. A. Maguire, M. L. Shaffer. 1987. Sample sizes for minimum viable population estimation. Conserv. Biol. 1: 72-76.
- Harris, R. L. 1996. INFORMATION GRAPHICS. Oxford Univ. Press. New York, NY.
- Harrison, C. 1978. A FIELD GUIDE TO THE NESTS, EGGS, AND NESTLINGS OF NORTH AMERICAN BIRDS. Collins Press. Cleveland, OH.
- Harrison, D. L. and A. Savory. 1990. Holistic resource management (HRM) Dodson Pilot Project Summary. Apache-Sitgreaves National Forest. Springerville, AZ.
- Harrison, H. H. 1979. A FIELD GUIDE TO WESTERN BIRDS NESTS. Peterson Field Guide No. 25. Houghton-Mifflin. Boston, MA.
- Hart, M. C. 1891. Results of a biological reconnaissance of south-central Idaho. North Amer. Fauna Series no. 5. US GPO. Washington, DC.
- Hart, M. M., W. A. Williams, P. C. Thornton, [et al.]. 1998. Montana atlas of terrestrial vertebrates. Univ. Montana, Coop. Wildlife Res. Unit. Missoula, MT. (unpublished report).
- Hartzler, J. E. 1972. An analysis of sage grouse lek behavior. Ph.D. Diss., Univ. Montana. Missoula, MT. 246 pages.
- Hartzler, J. E. 1974. Predation and the daily timing of sage grouse leks. Auk 91: 532-536.
- Hartzler, J. E. and D. A. Jenni. 1988. Mate choice by female sage grouse. Pages 240-269 IN A. T. Bergerud and M. W. Grayson (eds.) ADAPTIVE STRATEGIES AND POPULATION ECOLOGY OF NORTHERN GROUSE. Univ. Minnesota Press. Minneapolis, MN.
- Hastings, A. and F. J. Rohlf. 1974. Gene flow: effect in stochastic models of differentiation. Amer. Natur. 108: 701-705.
- Haufler, J. B. 1999. Strategies for conserving terrestrial biological diversity IN R. K. Baydack, Henry Campa, J. B. Haufler (eds.). PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.

- Haufler, J. B., C. A. Mehl, G. J. Roloff. 1999. Conserving biological diversity using a coarse-filter approach with a species assessment *IN* R. K. Baydack, Henry Campa, J. B. Haufler (eds.) PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.
- Hausman, L. A. 1944. THE ILLUSTRATED ENCYCLOPEDIA OF AMERICAN BIRDS. Halcyon House. New York, NY.
- Haveren, B. P., E. B. Janes, W. L. Jackson. 1985. Nonpoint pollution control on public lands. *J Soil and Water Conserv.* 40(1): 92-94.
- Hayden, T. J. and D. J. Tazik 1992. Integrated resource monitoring on Army lands and its application to conservation of neotropical birds. Pages 258-264 *IN* D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Hayden-Wing, L. D., D. B. Costain, J. L. Hull, M. R. Jackson, T. B. Segerstrom. 1985. Movement patterns and habitat affinities of a sage grouse population in northeastern Wyoming. Pages 207-226 *IN* R. D. Comer, T. G. Baumann, P. Davis, J. W. Monarch, [et al.] (eds.). Proc. Issues and Technology in the Management of Impacted Western Wildlife Symp.; Feb. 4-6, 1985; Glenwood Springs, CO. Thorne Ecological Institute. Boulder, CO.
- Haynes, R. W., R. T. Graham, T. M. Quigley (technical eds.). 1996. A framework for ecosystem management in the Interior Columbia Basin including portions of the Klamath and Great Basins. Gen. Tech. Rep. PNW-374. USDA – Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Hays, D. W., M. J. Tihri, D. K. Stinson. 1998. Washington state status report for the sage grouse. Washington Dept. Fish and Wildlife, Wildlife Management Program. Olympia, WA.
- Hayward, C. L., C. Cottam, A. M. Woodbury, H. H. Frost. 1976. Birds of Utah. Great Basin Natur. Mem. No. 1. 229 pages.
- Hazlett, D. L. 1998. Vascular plant species of the Pawnee National Grassland. Gen. Tech. Rep. GTR-17. USDA-Forest Service, Rocky Mountain Res. Stn.
- Heady, H. F. 1975. RANGELAND MANAGEMENT. McGraw-Hill. New York, NY.
- Heady, H. F. and J. Bartolome. 1977. The Vale rangeland rehabilitation program: the desert repaired in southeastern Oregon. Pacific NW Forest and Range Exp. Stn. Res. Bull. No 70. USDA – Forest Service. Portland, OR.
- Heady, H. F., R. P. Gibbens, R. W. Powell. 1959. A comparison of charting, line intercept, and line point methods of sampling shrub types of vegetation. *J. Range Manage.* 12: 180-188.
- Heady, H. F., [et al.]. 1974. Livestock grazing on federal lands in the 11 western states. *J. Range Manage.* 27(3): 174-181.
- Heard, J. N. 1987. HANDBOOK OF THE AMERICAN FRONTIER: FOUR CENTURIES OF INDIAN-WHITE RELATIONSHIPS. Scarecrow Press. Metuchen, NJ.
- Heath, B. J. 1992. Sage grouse population changes in Wyoming. Progress rep. March 1, 1992. Wyoming Game and Fish Dept. 21 pages.

- Heath, B. J., R. Straw, S. H. Anderson, [et al.]. 1997. Sage grouse productivity, survival, and seasonal habitat use near Farson, Wyoming. Wyoming Game and Fish Dept.
- Heath, B., R. Straw, S. Anderson, [et al.]. 1996. Proceedings of the Sage Grouse Workshop. Pinedale, WY.
- Hedrick, P. W. 1976. Genetic variation in a heterogeneous environment. II. Temporal heterogeneity and directional selection. *Genetics* 84: 145-157.
- Hedrick, P. W. and P. S. Miller. 1992. Conservation genetics: techniques and fundamentals. *Ecol. Applic.* 2: 30-46.
- Hedrick, P. W., M. E. Ginevan, E. P. Ewing. 1976. Genetic polymorphism in heterogeneous environments. *Ann. Rev. Ecol. Syst.* 7: 1-32.
- Hedrick, P. W., R. C. Lacey, F. W. Allendorf, M. E. Soule. 1996. Directions in conservation biology: comments on Caughley. *Conserv. Biol.* 10: 1312-1320.
- Hein, D., P. Lehner, R. Ryder, J. Bourassa, L. Kolz, C. Braun, S. Emmons, H. Funk, K. Geisen, S. McElderry, B. Petersen, S. Porter, T. Schoenberg, J. Wagner. 1980. Evaluation of the effects of changes in hunting regulations on sage grouse populations: evaluation of census of females. Job completion report. W-37-R-33, WP-3, J-9c. Colorado Div. Wildl. 89 pages.
- Heisey, D. M. 1985. Analyzing selection experiments with the log-linear models. *Ecology* 66(6): 1744-1748.
- Heitschmidt, R. K. and J. W. Stuth (eds.). 1991. GRAZING MANAGEMENT: AN ECOLOGICAL PERSPECTIVE. Timber Press. Portland, OR.
- Hejl, S. J. and K. M. Granillo. 1998. What managers really need from avian researchers. Pages 431-437 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Helliwell, D. R. 1976. The effects of size and isolation on the conservation value of wooded sites in Britain. *J. Biogeography* 3: 407-416.
- Hemker, T. 1991. Upland game surveys and inventory. Proj. W-170-R-15. Idaho Dept. Fish and Game. Boise, ID. 186 pages.
- Hemker, T. 1998. Upland Game Study II, job 1. Proj. W-170-R-22. Progress report. Idaho Dept. Fish and Game. Boise, ID.
- Hendee, R. W. 1929. Notes on birds observed in Moffat County, Colorado. *Condor* 31: 24-32.
- Hendricks, P. 1991. Site fidelity and renesting of female American Pipits. *J. Field Ornithol.* 62: 338-342.
- Henshaw, H. W. 1875. Report upon ornithological collections made in portions of Nevada, Utah, California, Colorado, New Mexico, and Arizona, during the years 1871, 1872, 1873, and 1874. Pages 133-507 IN Report upon Geographical and Geological Explorations and Surveys West of the One Hundredth Meridian. Vol. 5. Zoology. US GPO. Washington DC.
- Henshaw, H. W. 1880. Ornithological report from observations and collections made in portions of California, Nevada, and Oregon. Pages 282-235 IN G. M. Wheeler. Annual Report upon the Geographical Surveys of the U.S. West of the 100<sup>th</sup> Meridian. U.S. Geol. Survey. Washington, DC.
- Herbel, C. H. 1955. Range conservation and season-long grazing. *J. Range Manage.* 8: 204-205.

- Herkert, J. R. 1994. The effects of habitat fragmentation on midwestern grassland bird communities. *Ecol. Applic.* 4: 461-471.
- Herzog, P. W. and D. M. Keppie. 1980. Migration in a local population of spruce grouse.
- Hewitt, G. P. and W. H. Burleson. 1975. Arthropods associated with two crested wheatgrass pastures in central Montana. *J. Range Manage.* 28: 301-304.
- Hickerson, P. P. 1997. Letter to M. J. Spear.
- Hickey, J. J. 1955. Some American population research on gallinaceous birds. Pages 326-396 IN A. Wolfson (ed.). *RECENT STUDIES IN AVIAN BIOLOGY*. Univ. Illinois Press. Urbana, IL.
- Hickey, W. C. 1977. A discussion of grazing management systems and some pertinent literature (abstracts and excerpts) 1895-1966. USDA - Forest Service. 323 pages.
- Higby, L. W. 1969. A summary of the Longs Creek sagebrush control project. *Proc. Western States Grouse Workshop* 6: 164-168.
- Higby, L. W. 1969. Design and use of the bumper mounted cannon net trap as a trapping technique for sage grouse. *Proc. West. States Sage Grouse Workshop* 6: 99-102.
- Higby, L. W. 1971. 1970 sage grouse report, chukar and Hungarian partridge report, blue and ruffed grouse report, non-game bird species report, pheasant report. Wyoming Game and Fish Commission, Game Division, District VI. Cheyenne, WY.
- Higby, L. W. 1972. 1971 sage grouse population study, ringnecked pheasant population trend study, chukar and Hungarian partridge study, forest grouse survey, non-game bird species. Wyoming Game and Fish Commission, Game Division, District VI. Cheyenne, WY.
- Higby, L. W. 1973. Bird survey: sage grouse population study, ringnecked pheasant population trend study, chukar and Hungarian partridge survey, forest grouse survey. Wyoming Game and Fish Dept., Game Division. Cheyenne, WY.
- Higgins, L. A. J. A. Hill, J. R. Young, R. D. Howard. Female social behaviour on sage grouse *Centrocercus urophasianus* leks in the Gunnison Basin, Colorado, USA. *Wildl. Biol.*
- High Desert Ecol. Research Inst. The recovery of lost landscapes: ecological analysis of steppe ecosystems across the Intermountain West.
- Hilden, O. 1965. Habitat selection in birds. *Ann. Zool. Fenn.* 2: 53-75.
- Hillman, C. N. and W. W. Jackson. 1973. The sharp-tailed grouse in South Dakota. *Tech. Bull.* 3. South Dakota Dept. Game, Fish, and Parks. Pierre, SD. 64 pages.
- Hironaka, M. 1979. Basic synecological relationships of the Columbia River sagebrush type. Pages 27-32 IN *The Sagebrush Ecosystem: A Symposium*. Utah State Univ., College of Nat. Resources. Logan, UT.
- Hironaka, M., M. A. Fosberg, A. H. Winward. 1983. Sagebrush-grass habitat types of southern Idaho. *Bull* 35. Univ. Idaho, Forest, Wildl. and Range Exp. Stn. Moscow, ID. 44 pages.
- Hitchcock, A. S. 1935. *MANUAL OF THE GRASSES OF THE UNITED STATES*. US GPO. Washington, DC.
- Hitchcock, C. L. and A. Cronquist. 1973. *FLORA OF THE PACIFIC NORTHWEST*. Univ. Washington Press. Seattle, WA.
- Hitchcock, C. L. and A. Cronquist. 1987. *FLORA OF THE PACIFIC NORTHWEST*. 6th ed. Univ. Washington Press. Seattle, WA.

- Hitchcock, C. L. and A. Cronquist. 1990. FLORA OF THE PACIFIC NORTHWEST. 7<sup>th</sup> ed. Univ. Washington Press. Seattle, WA.
- Hjertaas, D. G. 1995. Observations of hybrid sage x sharp-tailed grouse. *Blue Jay* 53(3): 144-147.
- Hjorth, I. 1967. Reproductive behavior in male grouse (family Tetraonidae). *Var Fagelvarld* 26: 193-243.
- Hjorth, I. 1970. Reproductive behavior in *tetraonidae* with special reference to males. *Viltrevy Swedish Wildl.* 7: 432-461.
- Hjorth, I. 1970. Reproductive behavior in Tetraonidae with special reference to males. *Viltrevy* 7: 381-587.
- Hjorth, I. 1976. The divalent origin and adaptive radiation of grouse songs. *Ornis Scand.* 7: 147-157.
- Hobbs, N. T. and T. A. Hanley. 1990. Habitat evaluation: do use/availability data reflect carrying capacity? *J. Wildl. Manage.* 54: 515-522.
- Hobbs, R. J. 1995. An integrated approach to the ecology and management of plant invasions. *Conserv. Biol.* 9(4): 761-770.
- Hobbs, R. J. and L. F. Huenneke. 1992. Disturbance, diversity, and invasion: implications for conservation. *Conserv. Biol.* 6(3): 324-337.
- Hodgson, J. and A. W. Illius (eds.). 1996. ECOLOGY AND MANAGEMENT OF GRAZING SYSTEMS. Oxford Univ. Press. New York, NY.
- Hoffman, A. A. and M. W. Blows. 1994. Species borders: ecological and evolutionary perspectives. *Trends in Ecol. Evol.* 9: 223-227.
- Hoffman, D. M. 1977. Investigations of the distribution and status of sagebrush and sage grouse in the Moffat County Area. Colorado Division of Wildlife. 23 pages.
- Hoffman, L. and F. Dobler. 1988. Observations of wintering densities and habitat use by Columbian sharp-tailed grouse in three counties of eastern Washington. Washington Dept. Fish Wildlife. Olympia, WA.
- Hoffman, R. S. 1958. The role of predators in "cyclic" declines of grouse populations. *J. Wildl. Manage.* 22: 317-319.
- Hoffman, R. W. and B. S. Cade. 1982. Occurrence of sage grouse above tree line. *C. F. O. Journal* 16: 22-23.
- Hoffman, R. W. and C. E. Braun. 1975a. A volunteer wing collection station. Game Infor. Leafl. 101. Colorado Div. Wildl. 3 pages.
- Hoffman, R. W. and C. E. Braun. 1975b. Migration of a wintering population of white-tailed ptarmigan in Colorado. *J. Wildl. Manage.* 39: 485-490.
- Hoffman, T. L. and C. L. Wambolt. 1996. Growth response of Wyoming big sagebrush to heavy browsing by wild ungulates. Pages 242-245 IN J. R. Barrow, E. D. McArthur, R. E. Sosebee, R. J. Tausch (compilers). Proc. Shrubland Ecosystem Dynamics in a Changing Environment; May 23-25, 1995; Las Cruces, NM. Gen. Tech. Rep. INT-338. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT. 275 pages.
- Hofmann L. and R. E. Ries. 1991. Relationship of soil and plant characteristics to erosion and runoff on pasture and range. *J. Soil and Water Conserv.* 46(2): 143-147.

- Hofmann, L. 1991. The western sage grouse (*Centrocercus urophasianus phaios*) on the Yakima Training Center in central Washington: a case study of a declining species and the military. M.S. thesis, Central Washington Univ. Ellensburg, WA.
- Hofmann, L. and F. Dobler. 1988. Spring movements, home range size, and habitat use by Columbian sharp-tailed grouse in eastern Washington. Wash. Dept. Fish and Wildlife. Olympia, WA.
- Hoglund, J. 1996. Can mating systems affect local extinction risks? Two examples of lek-breeding waders. *Oikos* 77: 184-188.
- Hogue, J. 1954. The grouse and the eagle. *Colo. Conserv.* 3(6): 8-11.
- Holecheck, J. L., R. D. Pieper, C. H. Herbel. 1989. RANGE MANAGEMENT: PRINCIPLES AND PRACTICES. Prentice Hall Publ. Englewood Cliffs, NJ. 501 pages.
- Holecheck, J. L., H. Gomez, F. Molinar, D. Galt. 1999. Grazing studies: what we have learned. *Rangelands* 21(2): 12-16.
- Holecheck, J. L., R. D. Pieper, C. H. Herbel. 1998. RANGE MANAGEMENT: PRINCIPLES AND PRACTICES. 3<sup>rd</sup> ed. Prentice Hall Publ. Upper Saddle River, NJ. 542 pages.
- Holing, D. 1986. Losing ground: fast times for the desert tortoise. *Amicus J.* 7(3): 28-33.
- Holling, C. S. 1969. Stability in ecological and social systems. Pages 128-141 IN Brookhaven Symposia in Biology, no. 22. Diversity and Stability in Ecological Systems. National Technical Information Service. Springfield, VA.
- Holloran, M. J. 1999. Sage grouse (*Centrocercus urophasianus*) seasonal habitat use near Casper, Wyoming. M.S. thesis, Univ. Wyoming. Laramie, WY.
- Holman, J. A. 1964. Osteology of gallinaceous birds. *Quart. J. Florida Acad. Sci.* 27: 230-52.
- Holmgren, N. H. 1972. Plant geography of the intermountain region. Pages 77-161 IN A. Cronquist, A. H. Holmgren, N. H. Holmgren, J. L. Reveal. INTERMOUNTAIN FLORA. Vol. 1. Hafner Publ. Co. New York, NY.
- Holt, R. D., S. W. Pacala, T. W. Smith, J. Liu. 1995. Linking contemporary vegetation models with spatially explicit animal population models. *Ecol. Applic.* 5: 20-27.
- Holt, S. J. and L. M. Talbot. 1978. New principles for the conservation of wild living resources. *Wildlife Monogr.* 59.
- Homer, C. G. 1991. Modeling sage grouse winter habitat with Landsat Thematic Mapper data in a Geographic Information System. M.S. thesis, Utah State Univ. Logan, UT.
- Homer, C. G., T. C. Edwards, R. D. Ramsey, K. P. Price. 1993. Use of remote sensing methods in modeling sage grouse winter habitat. *J. Wildlife Manage.* 57: 78-84.
- Honess, R. F. 1942. Sage grouse coccidia not transmissible to chickens. *Poultry Sci.* 21: 560.
- Honess, R. F. 1947. Coccidiosis as a decimating factor among sage grouse. Fed. Aid Wildl. Restor. Proj. 33-R. Wyo. Game and Fish Comm. Cheyenne, WY.
- Honess, R. F. 1955a. A new flagellate, *Tritrichomonas simoni* from the sage grouse, *Centrocercus urophasianus*. Bull. no. 8, article 1. Wyo. Game and Fish Comm. Cheyenne, WY.
- Honess, R. F. 1955b. Eimeria of grouse (Family: Tetraonidae), with a description of *Eimeria pattersoni* n. sp. from the sage grouse. Bull. no. 8, article 2. Wyo. Game and Fish Comm. Cheyenne, WY.
- Honess, R. F. 1968. History of an epizootic in sage grouse. Part II. Coccidial species infecting the sage grouse. *Science Monogr.* 14. Univ. Wyoming, Agric. Exp. Stn. Laramie, WY.

- Honess, R. F. and G. Post. 1955. Eimeria of grouse (family: Tetraonidae), with a description of *Eimeria pattersoni* sp. nov. from the sage grouse. Wyo. Game and Fish Comm. Bull. 8(2): 5-11.
- Honess, R. F. and G. Post. 1968. History of an epizootic in sage grouse. Part I. Sage grouse coccidiosis. Science Monogr. 14. Univ. Wyoming, Agric. Exp. Stn. Laramie, WY.
- Honess, R. F. and K. B. Winter. 1956. Diseases of wildlife in Wyoming. Wyo. Game and Fish Comm. Bull. No. 9. 279 pages.
- Honess, R. F. and W. J. Allred. 1942. Sage grouse studies. Part I. Structure and function of the neck muscles in inflation and deflation of the esophagus in sage grouse. Wyo. Game and Fish Comm. Bull. 2: 1-12.
- Hornaday, W. T. 1916. Save the sage grouse from extinction. New York Zool. Park Bull. 5: 179-219.
- Horning, D. S. and W. F. Barr. 1970. Insects of Craters of the Moon National Monument, Idaho. Misc. ser. no. 8. Univ. Idaho, College Agric. Moscow, ID. 252 pages.
- Horning, J. 1994. Grazing to extinction: endangered, threatened and candidate species imperiled by livestock grazing on western public lands. National Wildlife Federation. Washington, DC.
- Horsfall, R. B. 1920. Remarkable habits of the sage grouse as observed in southeastern Oregon in May, 1918. Zoologica 2: 243-250.
- Horsfall, R. B. 1932. A morning with sage grouse. Nat. Mag. 20(5): 205-208
- Hosmer, D. W. and S. Lemeshow. 1989. APPLIED LOGISTIC REGRESSION. John Wiley & Sons. New York, NY. 307 pages.
- Hosten, P. E. and N. E. West. 1994. Cheatgrass dynamics following wildfire on a sagebrush semidesert site in central Utah. Pages 56-62 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Houck, O. A. 1993. The Endangered Species Act and its implementation by the U.S. Departments of Interior and Commerce. 64 U. Colo. L. Rev. 277.
- Houck. 1998. 1996 plant community inventory of the Yakima Training Center (draft 2). Nature Conservancy of Washington, Shrub-steppe Field Office.
- Houde, A. E. 1988. Sexual selection in guppies called into question. Nature. Lond. 333: 711.
- Houston, D. B. 1973. Wildfires in northern Yellowstone National Park. Ecology 54: 1111-1117.
- Houston, W. R. 1961. Some interrelations of sagebrush, soil, and grazing intensity in the northern Great Plains. Ecology 42: 31-38.
- Howard, H. 1946. A review of the Pleistocene birds of Fossil Lake, Oregon. Carnegie Inst. Wash. Publ. 551: 191-195.
- Howard, J. L. 1996. *Centrocercus urophasianus* IN D. G., Simmerman (compiler). The Fire Effects Information System [Data base]. USDA – Forest Sevice, Intermountain Res. Stn., Intermountain Fire Sciences Laboratory. Missoula, MT. Magnetic tape reels; 9 track, 1600 bpi, ASCII with Common LISP present.  
<http://svinet2.fs.fed.us/database/feis/animals/bird/ceur/>
- Howe, R. B., G. J. Davis, V. Mosca. 1991. The demographic significance of "sink" populations. Biol. Conserv. 57: 239-255.

- Howell, A. B. 1917. Condition of game birds in east-central California. Condor 19: 186-187.
- Hubbard, J. P. 1970. Check-list of the birds of New Mexico. New Mexico Ornithol. Soc. Publ. 3. Albuquerque, NM. 103 pages.
- Hubbard, J. P. 1977. Importance of riparian ecosystems: biotic considerations. Pages 14-18 IN R. R. Johnson and D. A. Jones (tech. coords.). Importance, Preservation and Management of Riparian Habitat: A Symposium. Gen. Tech. Rep. RM-43. USDA – Forest Service.
- Hubert, W. A., R. P. Lanka, T. A. Wesche, F. Stabler. 1985. Grazing management influences on two brook trout streams in Wyoming. Pages 290-293 IN R. R. Johnson, C. D. Ziebell, D. R. Patton, [et al.] (tech. coords.). Riparian Ecosystems and their Management: Reconciling Conflicting Uses. Gen. Tech. Rep. RM-120. USDA – Forest Service.
- Hudson, G. E. and P. J. Lanzillotti. 1964. Muscles of the pectoral limb in galliform birds. Amer. Midl. Natur. 71: 1-113.
- Hudson, G. E., R. A. Parker, J. V. Berg, P. J. Lanzillotti. 1964. A numerical analysis of the modifications of the appendicular muscles in various species of gallinaceous birds. Amer. Midl. Natur. 76: 1-73.
- Hudson, P. J. 1986. Red grouse: the biology and management of a wild gamebird. Game Conserv. Fordingbridge, England.
- Hudson, P. J. and M. R. W. Rands. ECOLOGY AND MANAGEMENT OF GAMEBIRDS. Blackwell Scientific. Oxford, England.
- Huey, L. M. 1939. Birds of the Mount Trumball region, Arizona. Auk 56: 320-325.
- Hughes, R. M. and R. F. Noss. 1992. Biological diversity and biological integrity: current concerns for lakes and streams. Fisheries 17(3): 11-19.
- Hulbert, L. C. 1955. Ecological studies of *Bromus tectorum* and other annual brome grasses. Ecol. Monogr. 25: 181-213.
- Hulet, B. V. 1988. Selected responses of sage grouse to prescribed fire, predation and grazing by domestic sheep in southeastern Idaho. M.S. thesis, Brigham Young Univ. Provo, UT.
- Hulet, B. V., J. T. Flinders, J. S. Green, R. B. Murray. 1986. Seasonal movements and habitat selection of sage grouse in southern Idaho. Pages 168-175 IN E. D. McArthur and B. L. Welch (compilers). Proc. Symp. on the Biology of *Artemisia* and *Chrysothamnus*, July 9-13, 1984; Provo, UT. Gen. Tech. Rep. INT-200. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Hull, A. C. and G. J. Klomp. 1966. Longevity of crested wheatgrass in the sagebrush-grass type in southern Idaho. J. Range Manage. 19: 5-11.
- Hull, A. C. and G. J. Klomp. 1967. Thickening and spread of crested wheatgrass stands on southern Idaho ranges. J. Range Manage. 20: 222-227.
- Hull, A. C. and G. J. Klomp. 1974. Yields of crested wheatgrass under four densities of big sagebrush in southern Idaho. U.S. Dept. Agric. Tech. Bull. 1483.
- Hull, A. C. and M. K. Hull. 1974. Presettlement vegetation of Cache Valley, Utah and Idaho. J. Range Manage. 27: 27-29.
- Humphrey, L. D. 1984. Patterns and mechanisms of plant succession after fire on *Artemisia*-grass sites in southeastern Idaho. Vegetation 57: 91-101.
- Humphrey, R. R. 1953. The desert grassland, past and present. J. Range Manage. 6(3): 159-164.

- Humphrey, R. R. 1956. History of vegetation changes in Arizona. *Arizona Cattlelog* 11: 32-35.
- Humphrey, R. R. 1958. The desert grassland: a history of vegetational change and an analysis of causes. *Botanical Rev.* 24: 193-252.
- Humphrey, R. R. 1962. *RANGE ECOLOGY*. Ronald Press Co. New York, NY. 234 pages.
- Humphrey, R. R. 1967. *THE DESERT GRASSLAND*. Univ. Arizona Press. Tucson, AZ. 74 pages.
- Humphrey, R. R. and L. A. Mehrhoff. 1958. Vegetation changes on a southern Arizona grassland range. *Ecology* 39(4): 720-726.
- Hunnicutt, M. 1992. Use of Landsat imagery and geographical information systems in the assessment of rangeland cover and wildlife habitat. M.S. thesis, Utah State Univ. Logan, UT.
- Hunt, C. B. 1974. *NATURAL REGIONS OF THE UNITED STATES AND CANADA*. W. H. Freeman. San Francisco, CA.
- Hunt, C. E. 1989. Creating an endangered ecosystems act. *Endangered Species Update* 6(3-4): 1-5.
- Hunter, M. L. 1991. Coping with ignorance: the coarse filter strategy for maintaining biodiversity. Pages 266-281 IN K. A. Kohm (ed.). *BALANCING ON THE BRINK OF EXTINCTION: THE ENDANGERED SPECIES ACT AND LESSONS FOR THE FUTURE*. Island Press. Washington, DC.
- Hunter, R. 1990. Recent increases in *Bromus* populations on the Nevada test site. Pages 23-25 IN E. D. McArthur, E. M. Romney, S. D. Smith, P. T. Tueller (compilers). *Proc. Symp. on Cheatgrass Invasion, Shrub Die-off, and Other Aspects of Shrub Biology and Management*. Gen. Tech. Rep. INT-276. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 416 pages.
- Huntington, D. W. 1897. The sage grouse. *Osprey* 2: 17-18.
- Hupp, C. R. and A. Simon. 1991. Bank accretion and the development of vegetated depositional surfaces along modified alluvial channels. *Geomorphology* 4: 1-14.
- Hupp, J. W. 1987a. Sage grouse resource exploitation and endogenous reserves in Colorado. Ph.D. Diss., Colorado State Univ. Fort Collins, CO. 73 pages.
- Hupp, J. W. 1987b. Sage grouse distribution and habitats in the Gunnison Basin, Colorado: recommendations for maintenance. Colorado Div. Wildlife. Fort Collins, CO. (draft manuscript).
- Hupp, J. W. and C. E. Braun. 1989a. Endogenous reserves of adult male sage grouse during courtship. *Condor* 91(2): 266-271.
- Hupp, J. W. and C. E. Braun. 1989b. Topographic distribution of sage grouse foraging in winter. *J. Wildl. Manage.* 53: 823-829.
- Hupp, J. W. and C. E. Braun. 1991. Geographic variation among sage grouse in Colorado. *Wilson Bull.* 103: 255-261.
- Hurd, R. M. 1955. Effect of 2,4-D on some herbaceous range plants. *J. Range Manage.* 8: 126-128.
- Hurst, G. A. 1971. The effects of controlled burning on arthropod density and biomass in relation to bobwhite quail brood habitat on a right-of-way. *Proc. Tall Timbers Fire Ecol. Conf.* 2: 173-183.

- Hutchinson, B. A. 1965. Snow accumulation and disappearance influenced by big sagebrush. Res. Note RM-46. U.S. Forest Service, Rocky Mtn. Forest and Range Exp. Stn. Fort Collins, CO.
- Hutto, R. L. 1998. Using landbirds as an indicator species group. Pages 75-91 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Hutto, R. L., S. Reel, and P. B. Landres. 1987. A critical evaluation of the species approach to biological conservation. Endangered Species Update 4: 1-4.
- Idaho Dept. Fish and Game. 1994. Rules for the taking of upland game birds, furbearers, rabbits and hares, crows, predators, unprotected species, and for falconry. Idaho Dept. Fish and Game. 36 pages.
- Idaho Dept. Fish and Game. 1995. Saving all the pieces. Idaho Dept. Fish and Game; Idaho Dept. Parks and Recreation; USDI-BLM; USDI-Fish and Wildlife Service, Regions 1, 4.
- Idaho Sage Grouse Management Plan. 1997. Idaho Dept. Fish and Game. Boise, ID. 34 pages.
- Idaho Sage Grouse Task Force. 1997. Idaho sage grouse management plan - 1997. Idaho Dept. Fish and Game. Boise, ID. 34 pages.
- Ihli, M., P. Sherbenou, C. W. Welch. 1973. Wintering sage grouse in the upper Big Lost River. Trans. Idaho Acad. Sci. 1973: 73-80.
- Interior Columbia Basin Ecosystem Management Project (ICBEMP). 1996. Draft EIS. USDA-Forest Service, Pac. Northwest Region. USDI-BLM, OR and WA. Walla Walla, WA.
- Irwin, L. L., J. G. Cook, R. A. Riggs, J. M. Skovlin. 1994. Effects of long term grazing by big game and livestock in the Blue Mountains forest ecosystems. Gen. Tech. Rep. PNW-325. USDA - Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- IUCN. 1999. Entry for Gunnison sage grouse. Red Book. (draft).
- Iverson, R. M., B. S Hinckley, R. M. Webb, B. Hallet. 1981. Physical effects of vehicular disturbances on arid landscapes. Science 212(4497): 915-917.
- Jackman, E. R. and R. A. Long. 1977. THE OREGON DESERT. Caxton Printers. Caldwell, ID.
- Jackson, D. D. 1975. SAGEBRUSH COUNTRY. Time-Life Books. New York, NY.
- James, F. C. 1998. The growing pains of avian conservation biology. Pages 18-23 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- James, F. C., C. E. McCulloch, D. A. Wiedenfeld. 1996. New approaches to the analysis of population trends in land birds. Ecology 77: 13-27.
- Jameson, D. A. 1968. Species interactions of growth inhibitors in native plants of northern Arizona. Res. Note RM-113. USDA-Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO.
- Janssen, L. F., M. N. Jaarsma, E. T. M. van der Linden. 1990. Integrating topographic data with remote sensing for land-cover classification. Photogr. Eng. Remote Sens. 56(11): 1503-1506.
- Janzow, P., J. Scordato, K. Schiaparelli. 1992. The student edition of MATLAB. Prentice Hall. Englewood Cliffs, NJ.
- Jarvis, J. M. 1973a. Sage grouse in south central Utah. Proc. West States Sage Grouse Workshop 8: 47-48.

- Jarvis, J. M. 1973b. The Parker Mountain sage grouse study. Proc. West. Assoc. State Game and Fish Comm. 53: 345-352.
- Jarvis, J. M. 1974. Sage grouse population studies on the Parker Mountain in south central Utah. Fed. Aid Wildl. Restor. Proj. W-65-R, Job c-1. Utah Dept. Natur. Res., Div. Wildl. Res. Salt Lake City, UT.
- Jawson, M. D., [et al.]. 1982. The effect of cattle grazing on indicator bacteria in runoff from a Pacific Northwest watershed. J. Env'l Quality 11: 621-627.
- Jeffries, D. L. and J. M. Klopatek. 1987. Effects of grazing on the vegetation of the blackbrush association. J. Range Manage. 40: 390-392.
- Jehl, J. R. and N. K. Johnson (eds.). 1993. A century of change in western North America. Stud. Avian Biol. No. 15.
- Jenkins, D., A. Watson, G. R. Miller. 1963. Population studies on red grouse, *Lagopus lagopus scoticus* (Lath.), in north-east Scotland. J. Animal Ecol. 32: 317-376.
- Jenkins, D., A. Watson, G. R. Miller. 1967. Population fluctuations in the red grouse (*Lagopus lagopus scoticus*). J. Animal Ecol. 36: 97-122.
- Jenkins, D., A. Watson, N. Picozzi. 1965. Red grouse chick survival in captivity and in the wild. Trans. Congr. Intl. Union Game Biol. 6: 63-70.
- Jenni, D. A. and J. E. Hartzler. 1978. Attendance at a sage grouse lek: implications for spring censuses. J. Wildl. Manage. 42(1): 46-52.
- Jennings, M. D. 1993. Natural terrestrial cover classification: assumptions and definitions. Gap analysis Tech. Bull. 2. USDI-Fish Wildlife Service, Idaho Coop. Fish Wildl. Res. Unit. Moscow, ID.
- Jensen, H. P., D. Rollins, R. L. Gillen. 1990. Effects of cattle stock density on trampling loss of simulated ground nests. Wildl. Soc. Bull. 18: 71-74.
- Jessen, R. J. 1978. STATISTICAL SURVEY TECHNIQUES. John Wiley & Sons. New York, NY. 520 pages.
- Jewett, S. G. 1925. Nesting of sage hen in Siskiyou County, California. Condor 27: 115-116.
- Jewett, S. G., W. P. Taylor, W. T. Shaw, J. W. Aldrich. 1953. BIRDS OF WASHINGTON STATE. Univ. Washington Press. Seattle, WA. 767 pages.
- Johansen, J. R. 1993. Cryptogamic crusts of semiarid and arid lands of North America. J. Phycology 29: 140-147.
- Johansen, J. R., J. Ashley, W. R. Rayburn. 1993. Effects of range fire on soil algal crusts in semiarid shrubsteppe of the lower Columbia Basin and their subsequent recovery. Great Basin Natur. 53: 73-88.
- Johnsgard, P. A. 1973. GROUSE AND QUAILS OF NORTH AMERICA. Univ. Nebraska Press. Lincoln, NE. 553 pages.
- Johnsgard, P. A. 1975. NORTH AMERICAN GAME BIRDS OF UPLAND AND SHORELINE. Univ. Nebraska Press. Lincoln, NE. 183 pages.
- Johnsgard, P. A. 1983. THE GROUSE OF THE WORLD. Univ. Nebraska. Lincoln, NE.
- Johnson, A. R., J. A. Wiens, B. T. Milne, T. O. Crist. 1992. Animal movements and population dynamics in heterogenous landscapes. Landscape Ecol. 7: 63-75.
- Johnson, C. G. 1998. Vegetation response after wildfires in national forests of northeastern Oregon. USDA-Forest Service, Pacific Northwest Reg. Portland, OR.

- Johnson, C. G., R. R. Clausnitzer, P. J. Mehringer, C. D. Oliver. 1994. Biotic and abiotic processes of eastside ecosystems: the effects of management on plant and community ecology, and on stand and landscape vegetation dynamics. Gen. Tech. Rep. PNW-322. USDA-Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Johnson, C. W. 1994. Wildlife conservation: a conceptual master plan for Salt Lake City. *Western Planner* 15(5): 10-.
- Johnson, D. H. 1980. The comparison of usage and availability measurements for evaluating resource preference. *Ecology* 61: 65-71.
- Johnson, G. D. 1987. Effects of rangeland grasshopper control on sage grouse in Wyoming. M.S. thesis, Univ. Wyoming. Laramie, WY. 98 pages.
- Johnson, G. D. and M. S. Boyce. 1990. Feeding trials with insects in the diet of sage grouse chicks. *J. Wildl. Manage.* 54: 89-91.
- Johnson, G. D. and M. S. Boyce. 1991. Survival, growth, and reproduction of captive-reared sage grouse. *Wildl. Soc. Bull.* 19(1): 88-93.
- Johnson, K. H. and C. E. Braun. 1999. Viability and conservation of an exploited sage grouse population. *Conserv. Biol.* 14(1): 77-84.
- Johnson, K. H., R. A. Olson, T. D. Whitson. 1996. Composition and diversity of plant and small mammal communities in tebuthiuron-treated big sagebrush (*Artemesia tridentata*). *Weed Technology* 10: 404-416.
- Johnson, K. L. 1986. Sagebrush over time: a photographic study of rangeland change. Pages 223-252 IN E. D. McArthur and B. L. Welch (compilers). *Proc. Symp. on the Biology of Artemesia and Chrysothamnus*; July 9-13, 1984; Provo, UT. Gen. Tech. Rep. INT-200. USDA - Forest Service, Intermountain Res. Stn. Ogden, UT.
- Johnson, L. L. 1989. Field investigations of the lek mating system in sage grouse. M.S. thesis, Univ. Wyoming. Laramie, WY.
- Johnson, L. L. and M. S. Boyce. 1991. Female choice of males with low parasite loads in sage grouse. Pages 377-388 IN J. E. Loye and M. Zuk. *BIRD-PARASITE INTERACTIONS: ECOLOGY, EVOLUTION, AND BEHAVIOUR*. Oxford Univ. Press. New York, NY.
- Johnson, N. K. 1975. Controls of number of bird species on montane islands in the Great Basin. *Evolution* 29: 545-567.
- Johnson, N. K. 1978. Patterns of avian geography and speciation in the intermountain region. *Great Basin Natur. Memoirs* 2: 137-159.
- Johnson, O. W. 1968. Some morphological features of avian kidneys. *Auk* 85: 216-228.
- Johnson, R. G. and S. A. Temple. 1986. Assessing habitat quality for birds nesting in fragmented tallgrass prairies. Pages 245-249 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). *WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES*. Univ. Wisconsin Press. Madison, WI.
- Johnson, R. G. and S. A. Temple. 1990. Nest predation and brood parasitism of tallgrass prairie birds. *J. Wildl. Manage.* 54: 106-111.
- Johnson, R. R., C. D. Ziebell, D. R. Patton, [et al.] (tech. coords.). 1985. Riparian ecosystems and their management: reconciling conflicting uses. Gen. Tech. Rep. RM-120. USDA - Forest Service, Rocky Mountain Forest and Range Res. Stn. Fort Collins, CO.

- Johnson, S. R., H. L. Gary, S. L. Ponce. 1978. Range cattle impacts on stream water quality in the Colorado Front Range. Res. Note RM-359. USDA – Forest Service, Rocky Mountain Forest and Range Res. Stn. Fort Collins, CO. 9 pages.
- Johnson, W. M. 1956. The effect of grazing intensity on plant composition, vigor, and growth of pine-bunchgrass ranges in central Colorado. *Ecology* 37(4): 790-798.
- Johnsson, K. 1995. Fragmentation index as a region based GIS operator. *Intl. J. Geogr. Infor. Sys.* 9(2): 211-220.
- Johnston, C. A. 1998. *GEOGRAPHIC INFORMATION SYSTEMS IN ECOLOGY*. Blackwell Science. Malden, MA.
- Johnston, C. A., J. Pastor and G. Pinay. Quantitative methods for studying landscape boundaries.
- Jones, K. B. 1981. Effects of grazing on lizard abundance and diversity in western Arizona. *Southwestern Natur.* 26: 107-115.
- Jones, P. D. and C. E. Braun. 1994. Sage grouse investigations in Montrose and Delta counties, Colorado, April – August 1994. unpublished manuscript, 11 pages of text with maps and tables. Div. Wildlife, State of Colo. Ft. Collins, CO.
- Jones, R. E. 1968. A board to measure cover used by prairie grouse. *J. Wildl. Manage.* 32: 28-31.
- Jordan, G. L. 1983. Planting limitations for arid, semiarid, and salt-desert shrublands. Pages 11-16 *IN Managing Intermountain Rangelands-Improvement of Range and Wildlife Habitats.* Gen. Tech. Rep. INT-157. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Jordan, W. R., R. L. Peters, E. B. Allen. 1988. Ecological restoration as a strategy for conserving biological diversity. *Environ. Manage.* 12(1): 55-72.
- Josephy, A. M. 1992. *AMERICA IN 1492*. Knopf. New York, NY.
- Judd, S. D. 1905. The grouse and wild turkeys of the United States, and their economic value. US GPO. Washington, DC.
- June, J. W. 1933. Sage hen's sanctuary, II. *Nat. Mag.* 21: 22.
- June, J. W. 1963. Sage grouse population trend study. Wyoming Game and Fish Comm. 82 pages.
- June, J. W. 1963a. Western states sage grouse workshop. Western states sage grouse committee, 1962-1963; June 18-20, 1963, Lima, MT. Wyoming Game and Fish Dept. 69 pages.
- June, J. W. 1963b. Wyoming sage grouse population measurement. *Proc. West. Assoc. State Game and Fish Comm.* 43: 206-211.
- June, J. W. 1967a. A comprehensive report on Wyoming grouse family. *Wyo. Wildl.* 31(10): 19-24.
- June, J. W. 1967b. Guzzlers—man-made water holes for wildlife. *Wyo. Wildl.* 31(7): 30-35.
- June, J. W. 1967c. Sage, blue and ruffed grouse sexing and aging characteristics. Wyoming Game and Fish Dept. Cheyenne, WY. 59 pages.
- June, J. W. 1969a. Man-made waterholes—guzzlers and sage grouse use Proc. West. States Sage Grouse Workshop 6: 125-127.
- June, J. W. 1969b. The haunts of blue and ruffed grouse. *Wyo. Wildl.* 33(10): 26-29

- June, J. W. 1971. Southwestern Bird Management Unit. Wyoming Game and Fish Commission, Game Div., District I and IV. Cheyenne, WY.
- June, J. W. 1972. 1971 Southwestern Bird Management Unit. Wyoming Game and Fish Commission, Game Div., District I and IV. Cheyenne, WY.
- June, J. W. 1975. Sage grouse population trend. Wyoming Game and Fish Dept., Game Div. Cheyenne, WY.
- June, J. W. and L. W. Higby. 1965. Proc. western states sage grouse 1965 workshop. West. States Sage Grouse Comm.
- Kahn, N. W., C. E. Braun, J. R. Young, S. Wood, D. R. Mata, T. W. Quinn. 1999a. Molecular analysis of genetic variation among large- and small-bodied sage grouse using mitochondrial control-region sequences. *Auk* 116: 819-824.
- Kahn, N. W., C. E. Braun, J. R. Young, S. Wood, D. R. Mata, T. W. Quinn. 1999b. Rapid morphological evolution in a new species of sage grouse from Colorado inferred from phylogenetic analysis of mitochondrial control region sequences. *Auk* (in press)
- Kalisz, S. and M. A. McPeek. 1992. Demography of an age-structured annual: resampled projection matrices, elasticity analyses, and seed bank effects. *Ecology* 73: 1082-1093.
- Kaltenecker, J. and M. Wicklow-Howard. 1994. Microbiotic soil crusts in sagebrush habitats of southern Idaho. Eastside Ecosystem Management Project. 57 pages.
- Kaltenecker, J. H. 1997. The recovery of microbiotic crusts following post-fire rehabilitation on rangelands of the western Snake River Plain. M.S. thesis, Boise State Univ. Boise, ID.
- Kaneshiro, K. Y. 1989. The dynamics of sexual selection and founder effects in species formation. Pages 279-296 IN L. V. Giddings, K. Y. Kaneshiro, W. W. Anderson (eds.) *GENETICS, SPECIATION AND THE FOUNDER PRINCIPLE*. Oxford Univ. Press. New York, NY. 373 pages.
- Kantrud, H. A. and R. L. Kologiski. 1982. Effects of soils and grazing on breeding birds of uncultivated upland grasslands of the northern great plains. *Wildl. Res. Rept.* 15. USDI - FWS. Washington, DC.
- Kapoor-Vijay, P. and J. White. 1992. *CONSERVATION BIOLOGY: A TRAINING MANUAL FOR BIOLOGICAL DIVERSITY AND GENETIC RESOURCES*. Commonwealth Science Council. London, England.
- Kareiva, P. 1990. Population dynamics in spatially complex environments: theory and data. *Philos. Trans. Royal Soc. London, Ser. B* 330: 175-190.
- Kareiva, P. and M. Anderson. 1989. Spatial aspects of species interactions: the wedding of models and experiments. Pages 35-50 IN A. Hastings (ed.) *COMMUNITY ECOLOGY*. Springer-Verlag. New York, NY.
- Kauffman, J. B. 1990. The ecology of fire in rangelands: historical and current contexts. Pages 2-5 IN T. E. Bedell (technical ed.). Proc. Pacific Northwest Range Management Short Course: Fire in Pacific Northwest Ecosystems. Oregon State Univ., Dept. Rangeland Resources. Corvallis, OR. 145 pages.
- Kauffman, J. B. and W. C. Krueger. 1984. Livestock impacts on riparian ecosystems and streamside management implications: a review. *J. Range Manage.* 37: 430-437.
- Kauffman, J. B., W. C. Krueger, M. Vavra. 1983a. Impacts of cattle on streambanks in northeastern Oregon. *J. Range Manage.* 36: 683-685.

- Kauffman, J. B., W. C. Krueger, M. Vavra. 1983b. Effects of late season cattle grazing on riparian plant communities. *J. Range Manage.* 36: 685-691.
- Kauffman, J. B., W. C. Krueger, M. Vavra. 1983c. Effects of late season cattle grazing on riparian ecosystems and streamside management implications: a review. *J. Range Manage.* 37(5): 430-438.
- Kaufman, K. 1990. *A FIELD GUIDE TO ADVANCED BIRDING*. Houghton-Mifflin Co. Boston, MA.
- Kaufman, K. 1996. *LIVES OF NORTH AMERICAN BIRDS*. Houghton-Mifflin Co. Boston, MA.
- Keddy, P. A., A. J. Spavold, C. J. Keddy. 1979. Snowmobile impact on old field and marsh vegetation in Nova Scotia, Canada: an experimental study. *Dalhousie University, Nova Scotia; Environmental Mgmt* 88(10): 409-415.
- Keeton, W. S. and G. H. Aplet. 1997. *ECOSYSTEM MANAGEMENT IN THE INTERIOR COLUMBIA RIVER BASIN*. The Wilderness Society. Seattle, WA.
- Keister, G. P. and M. J. Willis. 1986. Habitat selection and success of sage grouse hens while nesting and brooding. Progress report. P. R. Proj. W-87-R-2. Oregon Dept. of Fish and Wildl. 10 pages.
- Keith, L. B. 1963. *WILDLIFE'S TEN-YEAR CYCLE*. Univ. Wisconsin Press. Madison, WI.
- Keith, L. B. 1983. Role of food in hare population cycles. *Oikos* 40: 385-395.
- Keller, C. R. and K. P. Burnham. 1982. Riparian fencing, grazing, and trout habitat preference on Summit Creek, Idaho. *North Amer. J. Fisheries Manage.* 2: 53-59.
- Keller, R. J., H. R. Sheperd, R. N. Randall. 1941. Survey of 1931/North Park, Jackson County, Moffat County, including comparative data of previous seasons. Sage grouse survey. Colorado Game and Fish Dept. Denver, CO. 31 pages.
- Kellner, C. J., J. D. Brawn, J. R. Karr. 1992. What is habitat suitability and how should it be measured? Pages 476-488 *IN* D. R. McCollough and R. H. Barret (eds.) *WILDLIFE 2001: POPULATIONS*. Elsevier Applied Sci. New York, NY.
- Kellogg, W. W. and S. H. Schneider. 1977. Climate, desertification, and human activities Pages 141-163 *IN* M. H. Glantz (ed.). *DESERTIFICATION: ENVIRONMENTAL DEGRADATION IN AND AROUND ARID LANDS*. Westview Press, Boulder, CO.
- Kelsey, R. G. 1984. Glandular trichomes: a helpful taxonomic character for *Artemisia nova* (black sagebrush). *J. Range Manage.* 37: 370-372.
- Kelso, L. 1936. Bird notes from Fall River, Larimer County, Colorado. *Oologist* 52: 14-19.
- Kelt, D A. T. J. Valone. 1995. Effects of grazing on the abundance and diversity of annual plants in Chihuahuan desert scrub habitat. *Oecologia* 103: 191-
- Kemp, W. P. 1998. Sage grouse, grasshoppers, and drought. Western Sage and Columbian Sharp-tailed Grouse Workshop. (abstract)
- Kerley, L. 1994. Bird responses to habitat fragmentation caused by sagebrush management in a Wyoming sagebrush steppe ecosystem. Ph.D. Diss., Univ. Wyoming. Laramie, WY.
- Kerr, A. 1998. Sage grouse: the spotted owl of the high desert. Unpubl. paper.
- Kerr, A. 1998. Sagebrush country campaign. Unpubl. paper.
- Kerr, A. 1998. The voluntary retirement option for federal public land grazing permittees. *Rangelands* 20(5).

- Kessler, W. B. and R. P. Bosch. 1982. Sharp-tailed grouse and range management practices in western rangelands. Pages 133-146 IN J. M. Peek and P. D. Dalke (eds.). Proc. Wildlife-Livestock Relationships Symp.; Apr. 20-22, 1981; Coeur d'Alene, ID. Univ. Idaho, Forest, Range and Exp. Stn. Moscow, ID. 614 pages.
- Kiester, A. R. 1971. Species density of North American amphibians and reptiles. *Syst. Zool.* 20(2): 127-137.
- Kiester, A. R., J. M. Scott, B. Csuti, R. F. Noss, B. Butterfield, K. Sahr, D. White. 1996. Conservation prioritization using GAP data. *Conserv. Biol.* 10(5): 1332-1342.
- Killough, T. 1972. 1971 sage grouse population trends and management, 1971 pheasant population trend and management. Wyoming Game and Fish Comm., Game Div., District V and VII. Cheyenne, WY.
- Killough, T. 1973. Forest grouse management spot report, 1972 Laramie Peak wild turkey population trend, 1972 sage grouse population trends and management, wild turkey harvest, pheasant population trend and management. Wyoming Game and Fish Dept., Game Div., District V. Cheyenne, WY.
- Killough, T. 1974. 1973 sage grouse population trends and management. Project No W-50-R Wyoming Game and Fish Dept., Game Div., District V. Cheyenne, WY
- Killpack, C. 1982. Computer mapping, spatial analysis, and landscape architecture. *Landscape J.* 1(1): 41-48
- Kimball, J. F. 1969. Sage grouse management in Utah. *Proc. West. States Sage Grouse Workshop* 6: 111-117.
- Kindschy, R. R. 1986. Rangeland vegetative succession - implications to wildlife. *Rangelands* 8(4): 157-159.
- King, C. 1877. U.S. Geological Exploration of the Fortieth Parallel. Clarence King, geologist-in-charge. Part 3: Ornithology. Robert Ridgway. US GPO. (as cited in Ryder 1985).
- King, J. R. 1972. Adaptive periodic fat storage by birds. *Proc. Intl. Ornithol. Congr.* 15: 200-217.
- King, J. R. 1973. Energetics of reproduction in birds. Pages 78-107 IN D. S. Farner (ed.) *BREEDING BIOLOGY OF BIRDS*. National Research Council. Washington, DC.
- King, J. R. 1974. Seasonal allocation of time and energy resources in birds. Pages 4-85 IN R. A. Paynter (ed.). *AVIAN ENERGETICS*. Nuttall Ornithological Club. Cambridge, MA.
- King, J. R. and M. E. Murphy. 1985. Periods of nutritional stress in the annual cycles of endotherms: fact or fiction? *Amer. Zool.* 25: 955-964.
- King, R. D. 1969. Spring and summer foods of ruffed grouse on Vancouver Island. *J. Wildl. Manage.* 33: 440-442.
- King, R. D. and J. E. Bendell. 1982. Foods selected by blue grouse (*Dendragapus obscurus fuliginosus*). *Can. J. Zool.* 60: 3268-3281.
- King, W. B. 1977. Endangered birds of the world and current efforts towards managing them.
- King, W. B. (compiler). 1979. ENDANGERED BIRDS OF THE WORLD, THE ICBP BIRD RED DATA BOOK. Intl. Union for Conservation of Nature and Natural Res. Smithsonian Inst. Press. Washington, DC.
- King, W. B., G. V. Byrd, J. J. Hickey, [et al.]. 1976. Report of the Committee on Conservation 1975-1976. *Auk* 93(4 suppl.): 1-19.

- Kirkpatrick, M. 1982. Sexual selection and the evolution of female mate choice. *Evolution* 36: 1-12.
- Kirsch, L. M. 1969. Waterfowl production in relation to grazing. *J. Wildlife Manage.* 33: 821-828.
- Kituku, V. M., J. Powell, R. A. Olson. 1995. Restoring shrub quality in a sagebrush-bitterbrush vegetation type of south-central Wyoming. Pages 329-334 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). *Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315*. USDA – Forest Service. Ogden, UT.
- Klasing, K. C. 1998. *COMPARATIVE AVIAN NUTRITION*. Oxford Univ. Press. New York, NY.
- Klauber, L. M. 1956. *RATTLESNAKES*. Vol. 1. Univ. California Press. Berkeley, CA.
- Klebenow, D. A. 1968. The nesting and brood habitat of sage grouse. Ph.D. Diss., Univ. Idaho, Moscow, ID. 61 pages.
- Klebenow, D. A. 1969. Sage grouse nesting and brood habitat in Idaho. *J. Wildl. Manage.* 33(3): 649-662.
- Klebenow, D. A. 1970. Sage grouse versus sagebrush control in Idaho. *J. Range Manage.* 23: 396-400.
- Klebenow, D. A. 1972. The habitat requirements of sage grouse and the role of fire in management. *Proc. Tall Timbers Fire Ecology Conf.* 12: 305-315.
- Klebenow, D. A. 1982. Livestock grazing interactions with sage grouse. Pages 113-123 IN J. M. Peek and P. D. Dalke (eds.). *Proc. Wildlife-Livestock Relationships Symp.*; Apr. 20-22, 1981; Coeur d'Alene, ID. Univ. Idaho, Forest, Range and Exp. Stn. Moscow, ID. 614 pages.
- Klebenow, D. A. 1985. Habitat management for sage grouse in Nevada. *World Pheasant Assoc.* 10: 34-46.
- Klebenow, D. A. and G. M. Gray. 1968. Food habits of juvenile sage grouse. *J. Range Manage.* 21: 80-83.
- Klebenow, D. A., G. Zunino, M. Stigar, A. Alstatt. 1990. Sage grouse production and mortality studies. Final report. Project W-48-R-21, study 17, job 1. Nev. Dept. Wildl. Reno, NV. 26 pages.
- Kleinfelder, D., S. Swanson, G. Norris, W. Clary. 1992. Unconfined compressive strength of some streambank soils with herbaceous roots. *Soil Science Soc. Amer. J.* 56: 1920-1925.
- Klemmedson, J. D. 1956. Interrelations of vegetation, soils, and range conditions induced by grazing. *J. Range Manage.* 33: 134-138.
- Klemmedson, J. O. and J. G. Smith. 1964. Cheatgrass (*Bromus tectorum L.*). *Bot. Rev.* 30: 226-262.
- Klock, G. O. 1987. Use of GIS to map vegetation in eastern Washington. Paper presented at symposium: Land Classifications Based on Vegetation – Applications for Resource Management; November 17-19, 1987. Moscow, ID.
- Klopatek, J. M., R. J. Olson, C. J. Emerson, J. L. Joness. 1979. Land-use conflicts with natural vegetation in the United States. *Envl. Conserv.* 6: 191-199.
- Klott, J. H. 1987. Use of habitat by sympatrically occurring sage grouse and sharp-tailed grouse with broods. M.S thesis, Univ. Wyoming. Laramie, WY. 82 pages.

- Klott, J. H. and C. Ketcham. 1991. The results of using "Hobble Creek" sagebrush on two fire rehabilitations. Tech. Bull. 91-1, BLM-ID-PT-91-009-4350. USDI-BLM, Idaho State Office.
- Klott, J. H. and F. G. Lindzey. 1989. Comparison of sage and sharp-tailed grouse leks in south central Wyoming. *Great Basin Natur.* 49: 275-278.
- Klott, J. H. and F. G. Lindzey. 1990. Brood habitats of sympatric sage grouse and Columbian sharp-tailed grouse in Wyoming. *J. Wildl. Manage.* 54: 84-88.
- Klott, J. H., R. B. Smith, C. Vullo. 1993. Sage grouse habitat use in the Brown's Bench Area of south-central Idaho. Idaho Dept. of Fish and Game. Jerome, ID. USDI-BLM, Jarbridge Resource Area. Twin Falls, ID. 18 pages.
- Knick, S. T. 1996. New concepts in landscape ecology for managing wildlife on rangelands. Pages 17-23 IN W. D. Edge and S. L. Olsen-Edge (ed.) *Proc. Sustaining Rangeland Ecosystems Symp.*; Aug 29-31, 1994, La Grande, OR. Spec. Rep. 953. Blue Mountain Nat. Res. Inst. Oregon State Univ. Corvallis, OR. 213 pages.
- Knick, S. T. 1998. Northwest science forum: requiem for a sagebrush ecosystem? U.S. Geol. Surv., Forest and Rangeland Ecosystem and Science Center. Boise, ID.
- Knick, S. T. and J. T. Rotenberry. 1995. Landscape characteristics of fragmented shrub-steppe habitats and passerine breeding birds. *Conserv. Biol.* 9: 1059-1071.
- Knick, S. T. and J. T. Rotenberry. 1997. Landscape characteristics of disturbed shrubsteppe habitats in southwestern Idaho. *Landscape Ecol.* 12: 287-297.
- Knick, S. T., J. T. Rotenberry, T. J. Zarriello. 1997. Supervised classification of Landsat thematic mapper imagery in a semiarid rangeland by nonparametric discriminant analysis. *Photogram. Eng. Rem. Sens.* 63: 79-86.
- Knight, A. W. and R. L. Bottorff. 1984. The importance of riparian vegetation to stream ecosystems. Pages 160-167 IN R. E. Warner, K. M. Hendrix (eds.). CALIFORNIA RIPARIAN SYSTEMS: ECOLOGY, CONSERVATION, AND PRODUCTIVE MANAGEMENT. Univ. California Press. Berkeley, CA.
- Knight, R. L., G. N. Wallace, W. E. Riemsame. 1995. Ranching the view: subdivisions versus agriculture. *Conserv. Biol.* 9: 459-461.
- Knight, W. C. 1902. The birds of Wyoming. *Wyo. Exper. Stn. Bull.* No. 55. 174 pages.
- Knoll, G. and H. H. Hopkins. 1959. The effects of grazing and trampling upon certain soil properties. *Trans. Kansas Acad. Sci.* 62: 221-231.
- Knopf, F. L. 1994. Avian assemblages on altered grasslands. *Stud. Avian Biol.* 15: 247-257.
- Knopf, F. L. 1996a. Perspectives on grazing nongame bird habitats. Pages 51-58 IN P. R. Krausman (ed.) *RANGELAND AND WILDLIFE*. Soc. for Range Manage. Denver, CO.
- Knopf, F. L. 1996b. Prairie legacies--birds. Pages 135-148 IN F. B. Samson and F. L. Knopf (eds.) *PRAIRIE CONSERVATION: PRESERVING NORTH AMERICA'S MOST ENDANGERED ECOSYSTEM*. Island Press. Washington, DC.
- Knopf, F. L. and F. B. Samson. 1997. Conservation of grassland vertebrates. Pages 273-289 IN F. L. Knopf and F. B. Samson (eds.). *ECOLOGY AND CONSERVATION OF GREAT PLAINS VERTEBRATES*. Springer-Verlag. New York, NY.

- Knopf, F. L. and R. W. Cannon. 1982. Structural resilience of a willow riparian community to changes in grazing practices. Pages 198-207 IN J. M. Peek and P. D. Dalke (eds.). Proc. Wildlife-Livestock Relationships Symp.; Apr. 20-22, 1981; Coeur d'Alene, ID. Univ. Idaho, Forest, Range and Exp. Stn. Moscow, ID. 614 pages.
- Knopf, F. L., J. A. Sedgwick, D. B. Inkley. 1990. Regional correspondence among shrubsteppe bird habitats. Condor 92: 45-53.
- Knopf, F. L., J. A. Sedgwick, R. W. Cannon. 1988. Guild structure of a riparian avifauna relative to seasonal cattle grazing. J. Wildl. Manage. 52: 280-290.
- Knowlton, G. F. and F. C. Harmston. 1943. Grasshoppers and crickets eaten by Utah birds. Auk 60: 589-591.
- Knowlton, G. F. and H. F. Thornley. 1942. Insect food of the sage grouse. J. Econ. Entomol. 35: 107-108.
- Kobriger, G. D. 1964. North Dakota's first sage grouse season. N. Dak. Outdoors 27(5): 8-11.
- Kobriger, G. D. 1974. Sage season summary. N. Dak. Outdoors 36(10): 2-6.
- Kochert, M. N. and M. W. Collopy. 1998. Relevance of research to resource managers and policy makers. Pages 423-25 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Koehler, Bart. 1972. Environmental and regional planning . . . M.S. thesis, Univ. Wyoming Laramie, WY.
- Koehler, Gary M., J. D. Brittell. 1990. Managing spruce-fir habitat for lynx and snowshoe hares. J. Forestry 88(10): 10-14.
- Koenig, W. D. 1988. On determination of viable population size in birds and mammals. Wildl. Soc. Bull. 16: 230-234.
- Koerth, B. H., W. M. Webb, F. C. Bryant, F. S. Guthery. 1983. Cattle trampling of simulated ground nests under short duration and continuous grazing. J. Range Manage. 36: 385-386.
- Kohn, S. C. and G. D. Kobriger. 1986. Occurrence of a sage grouse/sharp-tailed grouse hybrid in North Dakota. Prairie Natur. 18(1): 33-36.
- Kondolf, G. M. 1993. Lag in stream channel adjustment to livestock exclosure, White Mountains, California. Restoration Ecology 1(4): 226-230.
- Koniak, S. 1985. Succession in pinyon-juniper woodlands following wildfire in the Great Basin. Great Basin Natur. 45: 556-566.
- Korschgen, L. J. 1966. Foods and nutrition of ruffed grouse in Missouri. J. Wildl. Manage. 30: 86-100.
- Kovalchik, B. L. and W. Elmore. 1992. Effects of cattle grazing systems on willow-dominated plant associations in central Oregon. Pages 111-119 IN W. P. Clary, E. D. McArthur, D. Bedunah, C. L. Wambolt (compilers). Proc. Symp. Ecology and Management of Riparian Shrub Communities. Gen. Tech. Rep. INT-289. USDA – Forest Service.
- Kramer, G. W., L. R. Rauen, S. W. Harris. 1979. Populations, hunting mortality, and habitat use of black brant at San Quintin Bay, Baja California, Mexico. Pages 242-254 IN R. L. Jarvis and J. C. Bartonek (eds.). MANAGEMENT AND BIOLOGY OF PACIFIC FLYWAY GEESE. Oregon State Univ. Bookstores. Corvallis, OR.
- Krausman, P. R. 1996. RANGELAND WILDLIFE. Soc. for Range Management. Denver, CO.

- Krausman, P. R. and B. Czech. 1997. Water developments and desert ungulates. Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments; Nov. 13-15, 1997. Arizona State University College of Law. Tempe, AZ.
- Krausman, P. R. and R. C. Etchberger. 1995. Responses of desert ungulates to a water project in Arizona. *J. Wildl. Manage.* 59(2): 292-300.
- Krebs, J. R. and N. B. Davies (eds.). 1984. BEHAVIOURAL ECOLOGY: AN EVOLUTIONARY APPROACH. Sinauer Assoc. Sunderland, MA.
- Kreithen, M. L. and D. B. Quine. 1979. Infrasound detection by the homing pigeon: a behavioral audiogram. *J. Comp. Physiol.* 129: 1-4.
- Kremen, C., R. K. Colwell, T. L. Erwin, D. D. Murphy, R. F. Noss, M. A. Sanjayan. 1993. Terrestrial arthropod assemblages: their use in conservation planning. *Conserv. Biol.* 7(4): 796-808.
- Krohn, W. B. 1992. Sequence of habitat occupancy and abandonment: potential standards for testing habitat models. *Wildl. Soc. Bull.* 20: 441-444.
- Krohn, W. B. and H. Salwasser. 1982. Opening remarks: habitat classification assessments for fish and wildlife. *Trans. North Amer. Wildl. and Nat. Res. Conf.* 47: 33-34.
- Krueper, D. J. 1993. Effects of land use practices on western riparian ecosystems. Pages 321-329 IN D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA - Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Kuchler, A. W. 1964. Manual to accompany the map, potential natural vegetation of the conterminous United States. Special Pub. No. 36. Amer. Geogr. Soc. New York, NY.
- Kuchler, A. W. 1964. Potential natural vegetation of the conterminous United States. Spec. Publ. 36. Amer. Geogr. Soc. New York, NY.
- Kuchler, A. W. 1970. Potential natural vegetation of the conterminous United States. Pages 90-91 IN A. C. Gerlach (ed.). THE NATIONAL ATLAS OF THE USA. US GPO. Washington, DC.
- Kufeld, R. C. 1968. Range type conversion programs in Colorado and their impact on deer, elk and sage grouse. Proc. Annual Conference Western Assoc. State Game and Fish Commissioners 48: 173-187.
- Kuntz, D. E. 1982. Plant response following spring burning in an *Artemisia tridentata* subsp. *vaseyana/Festuca idahoensis* habitat type. M.S. thesis, Univ. Idaho. Moscow, ID. 73 pages.
- Kurzejeski, E. W. and B. G. Root. 1988. Survival of reintroduced ruffed grouse in north Missouri. *J. Wildl. Manage.* 52: 248-252.
- Kuz'mina, M. A. 1992. TETRAONIDAE AND PHASIANIDAE OF THE USSR: ECOLOGY AND MORPHOLOGY. Smithsonian Inst. Libraries. Washington, DC.
- La Roe, E. T. 1993. Implementation of an ecosystem approach to endangered species conservation. *Endangered Species Update* 10(3/4): 3-12.
- Lacey, J. R. 1987. The influence of livestock grazing on weed establishment and spread. *Proc. Mont. Acad. Sci.* 47: 131-146.
- Lacey, J. R. and W. Van Poollen. 1981. Comparison of herbage production on moderately grazed and ungrazed western ranges. *J. Range Manage.* 34: 210-212.

- Lacey, J. R., C. B. Marlow, J. R. Lane. 1988. Influence of spotted knapweed on surface runoff and sediment production. Montana Dept. Agric. Helena, MT.
- Lacher, J. R. and D. D. Lacher. 1964. A mobile cannon net trap. J. Wildl. Manage. 28: 595-597.
- Lack, D. 1954. THE NATURAL REGULATION OF ANIMAL NUMBERS. Oxford Univ. Press. London, UK.
- Lacy, R. C. 1987. Loss of genetic diversity from managed populations: interacting effects of drift, mutation, immigration, selection, and population subdivision. Conserv. Biol. 1(2): 143-158.
- Lacy, R. C. 1987. Loss of genetic diversity from managed populations: interacting effects of drift, mutation, immigration, selection and population subdivision. Conserv. Biol. 2: 143-158.
- Ladyman, J. A. R. and E. Muldavin. 1996. Terrestrial cryptogams of pinyon-juniper woodlands in the southwestern United States. Gen. Tech. Rep. RM-280. USDA-Forest Service, Rocky Mountain Forest and Range Experiment Station. Fort Collins, CO.
- Lancaster, D. L., J. A. Young, R. A. Evans. 1987. Weed and brush control tactics in the sagebrush ecosystem. Pages 11-14 IN J. A. Onsager (ed.). Integrated Pest Management on Rangeland: State of the Art in the Sagebrush Ecosystem. ARS-50. USDA-Agric. Res. Serv. Springfield, VA.
- Lancia, R. A. 1974. A universal grid system for map locations. Wildlife Soc. Bull. 2: 72.
- Lande, R. 1981. Models of speciation by sexual selection on polygenic traits. Proc. Natl. Acad. Sci. 78: 3721-3725.
- Lande, R. 1982. A quantitative genetic theory of life history evolution. Ecology 63: 607-615.
- Lande, R. 1987. Extinction thresholds in demographic models of territorial populations. Amer. Natur. 130: 624-35.
- Lande, R. 1988a. Genetics and demography in biological conservation. Science 241: 1455-60.
- Lande, R. 1988b. Demographic models of the northern spotted owl (*Strix occidentalis caurina*). Oecologia 75: 601-07.
- Lande, R. 1989. Fisherian and Wrightian theories of speciation. Genome 31: 221-227.
- Lande, R. 1991. Isolation by distance in a quantitative character. Genetics 128: 443-452.
- Lande, R. 1993. Risks of population extinction from demographic and environmental stochasticity and random catastrophes. Amer. Natur. 142(6): 911-927.
- Lande, R. 1994a. Breeding plans for small populations, based on the dynamics of quantitative genetic variance IN J. Ballou (ed.). MANAGING SMALL POPULATIONS FOR VIABILITY AND CONSERVATION.
- Lande, R. 1994b. Risk of population extinction from fixation of deleterious mutations. Evolution 48(5): 1460-1469.
- Lande, R. 1994c. The meaning of quantitative genetic variation in evolution and conservation. Pages 27-40 IN R. Szaro and D. W. Johnston (eds.). BIODIVERSITY IN MANAGED LANDSCAPES: THEORY AND PRACTICE. Oxford Univ. Press. New York, NY. 778 pages.
- Lande, R. 1995. Mutation and conservation. Conserv. Biol. 9(4): 782-791.
- Lande, R. 1996. Statistics and partitioning of species diversity, and similarity among multiple communities. Oikos 76(1): 5-13.

- Lande, R. 1998a. Anthropogenic, ecological and genetic factors in extinction and conservation. *Res. Popul. Ecol.* 40(3): 259-269.
- Lande, R. 1998b. Demographic stochasticity and Allee effect on a scale with isotropic noise. *Oikos* 83(2): 353-358.
- Lande, R. and G. F. Barrowclough. 1987. Effective population size, genetic variation, and their use in population management. Pages 87-123 IN M. E. Soulé (ed.). *VIABLE POPULATIONS FOR CONSERVATION*. Cambridge Univ. Press. New York, NY.
- Lande, R. and M. Kirkpatrick. 1988. Ecological speciation by sexual selection. *J. Theor. Biol.* 133: 85-98.
- Lande, R. and S. H. Orzack. 1995. Extinction dynamics of age-structured populations in a fluctuating environment. *Proc. Natl. Acad. Sci.* 85: 7418-7421.
- Lande, R. and S. Shannon. 1996. The role of genetic variation in adaptation and population persistence in a changing environment. *Evolution* 50(1): 434-437.
- Lande, R. and T. Price. 1989. Genetic correlations and maternal effect coefficients obtained from offspring-parent regression. *Genetics* 122: 915-922.
- Lande, R., B.-E. Saether, S. Engen. 1997. Threshold harvesting for sustainability of fluctuating resources. *Ecology* 78(5): 1341-1350.
- Lande, R., G. H. Orians and J. Wiens. 1994. Spotted owl demography and ecosystem management in the Pacific Northwest. *Inner Voice* 6(2). 6-7.
- Lande, R., S. Engen, B.-E. Saether. 1994. Optimal harvesting, economic discounting and extinction risk in fluctuating populations. *Nature* 372(6501): 88-90.
- Lande, R., S. Engen, B.-E. Saether. 1995. Optimal harvesting of fluctuating populations with a risk of extinction. *Amer. Natur.* 145(5) 728-745.
- Lande, R., S. Engen, B.-E. Saether. 1998. Extinction times in finite metapopulation models with stochastic local dynamics. *Oikos* 83(2): 383-389.
- Landwehr, J. M., D. Pregibon, A. C. Shoemaker. 1984. Graphical methods for assessing logistic regression models. *J. Amer. Statistical Assoc.* 79(385): 61-71.
- Langner, L. L. and C. H. Flather. 1994. Biological diversity: status and trends in the United States. Gen Tech Rep. RM-244. USDA-Rocky Mountain Forest and Range Exp Stn. Ft. Collins, CO.
- LaRoe, E. T., [et al ]. 1995. *OUR LIVING RESOURCES: A REPORT TO THE NATION ON THE DISTRIBUTION, ABUNDANCE, AND HEALTH OF U.S. PLANTS, ANIMALS, AND ECOSYSTEMS*. USDI-National Biological Service. Washington, DC. 530 pages.
- Larrison, E. J. and D. R. Johnson. 1973. Density changes and habitat affinities of rodents of shadscale and sagebrush associations. *Great Basin Natur.* 33: 255-264.
- Larson, J. S. and R. D. Taber. 1980. Criteria of sex and age. Pages 143-202 IN S. D. Schemnitz (ed.). *WILDLIFE MANAGEMENT TECHNIQUES MANUAL*. The Wildlife Society. Washington, DC.
- Larson, R. and W. Whitman. 1942. A comparison of used and unused grassland and mesas in the badlands of South Dakota. *Ecology* 23: 438-445.
- Laudenslayer, W. F. 1986. Summary: predicting effects of patchiness and fragmentation--the manager's viewpoint. Pages 331-333 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). *WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES*. Univ. Wisconsin Press. Madison, WI.

- Laurance, W. F. and E. Yensen. 1991. Predicting the impacts of edge effects in fragmented habitats. *Biol. Conserv.* 55: 77-92.
- Lawton, J. H. 1993. Range, population abundance and conservation. *Trends in Ecol. Evol.* 8: 409-413.
- Lawton, J. H. 1994. What do species do in ecosystems? *Oikos* 71: 367-374
- Laycock, W. A. 1967. How heavy grazing and protection affect sagebrush-grass ranges. *J. Range Manage.* 20: 206-213.
- Laycock, W. A. 1969. Exclosures and natural areas on rangelands in Utah. Res. Paper INT-62. USDA-Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT. 44 pages.
- Laycock, W. A. 1983. Evaluation of management as a factor in the success of grazing systems. Pages 166-171 IN Managing Intermountain Rangelands-Improvement of Range and Wildlife Habitats. Gen. Tech. Rep. INT-157. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Laycock, W. A. 1987. Grazing management systems and tactics in the sagebrush ecosystem. Pages 40-49 IN J. A. Onsager (ed.). Integrated Pest Management on Rangeland: State of the Art in the Sagebrush Ecosystem. ARS-50. USDA-Agric. Res. Serv. Springfield, VA.
- Laycock, W. A. 1991. Stable states and thresholds of range conditions on North American rangelands: a viewpoint. *J. Range Manage.* 44: 427-433.
- Laycock, W. A. and P. W. Conrad. 1967. Effects of grazing on soil compaction as measured by bulk density on a high elevation cattle range. *J. Range Manage.* 20: 136-140.
- Leach, H. R. and A. L. Hensley. 1954. The sage grouse in California, with special reference to food habits. *California Fish and Game* 40: 385-94.
- Leach, H. R. and A. L. Hensley. 1954. The sage grouse in California with special reference to food habits. *Calif. Range Manage.* 44: 427-433.
- Leach, H. R. and B. M. Browning. 1958. A note on the food of sage grouse in the Madeline Plains area of California. *California Fish and Game* 44: 73-76.
- Leach, M. K. and T. J. Givnish. 1996. Ecological determinants of species loss in remnant prairies. *Science* 273(5281): 1555-1561.
- Lebreton, J. D. and J. Clobert. 1991. Bird population dynamics, management, and conservation: the role of mathematical modelling. Pages 105-125 IN C. M. Perrins, J. D. Lebreton, G. J. M. Hirons (eds.). *BIRD POPULATION STUDIES: RELEVANCE TO CONSERVATION AND MANAGEMENT*. Oxford Univ. Press. New York, NY.
- Lee, L. C., T. A. Muir, R. R. Johnson. 1989. Riparian ecosystems as essential habitat for raptors in the American West. Pages 15-26 IN B. G. Pendleton (ed.). *Western Raptor Manage. Symp. Workshop*. National Wildlife Federation. Washington, DC.
- Lefkovitch, L. P. and L. Fahrig. 1985. Spatial characteristics of habitat patches and population survival. *Ecol. Modeling* 30: 297-308.
- Lehman, V. W. 1941. Attwater's prairie chicken: its life history and management. U.S. Fish and Wildl. Service North Amer. Fauna 57. US GPO. Washington, DC. 63 pages.
- Leidy, J. 1887. Tape-worms in birds. *J. Comp. Med. Surg.* 8: 1-11.
- Leigh, E. G. 1975. Population fluctuations, community stability, and environmental variability. Pages 51-73 IN M. L. Cody and J. M. Diamond (eds.). *ECOLOGY AND EVOLUTION OF COMMUNITIES*. Belknap Press. Cambridge, MA.

- Leigh, E. G. 1981. The average lifetime of a population in a varying environment. *J. Theor. Biol.* 90: 213-39.
- Leonard W. P., H. A. Brown, L. L. C. Jones, K. R. McAllister, R. M. Storm. 1993. AMPHIBIANS OF WASHINGTON AND OREGON. Seattle Audubon Society. Seattle, WA.
- Leonard, K. M. 1998. Distribution, movements, and habitats of sage grouse on the Upper Snake River Plain: Changes from the 1950's to the 1990's. M.S. thesis, Univ. Idaho. Moscow, ID.
- Leopold, A. S. 1924. Grass, brush, timber, and fire in southern Arizona. *J. Forestry* 22(6): 1-10.
- Leopold, A. S. 1951. Ecosystem deterioration under multiple use. Presented to the Wild Trout Management Symp.; Sept. 26, 1974; Yellowstone National Park. 5 pages.
- Leopold, A. S. 1953. Intestinal morphology of gallinaceous birds in relation to food habits. *J. Wildl. Manage.* 17: 197-203.
- Leopold, A. S. 1977. THE CALIFORNIA QUAIL. Univ. California Press. Berkeley, CA. 281 pages.
- Leopold, A. S. 1933. GAME MANAGEMENT. Oxford Univ. Press. New York, NY.
- Leopold, A. S. 1946. Erosion as a menace to the social and economic future of the Southwest. *J. Forestry* 44: 627-633.
- Leopold, A. S., R. J. Gutierrez, M. T. Bronson. 1981. NORTH AMERICAN GAME BIRDS AND MAMMALS. Scribner. New York, NY.
- Leopold, L. B. 1951. Vegetation of southwestern watersheds in the nineteenth century. *Geographical Review* 41: 295-316.
- Lesica, P. and F. W. Allendorf. 1995. When are peripheral populations valuable for conservation? *Conserv. Biol.* 9(4): 753-760.
- Lesica, P. and T. H. DeLuca. 1996. Long-term harmful effects of crested wheatgrass on Great Plains grassland ecosystems. *J. Soil and Water Conserv.* Pages 408-409.
- Lesperance, A. L., P. T. Tueller, V. R. Bohman. 1970. Competitive use of the range forage resource. *J. Animal Sci.* 30: 115-122.
- Lessells, C. M. and P. T. Boag. 1987. Unrepeatable repeatabilities: a common mistake. *Auk* 104: 116-121.
- Leung, L. R. and S. J. Ghan. 1999a. Pacific Northwest climate sensitivity simulated by a regional climate model driven by a GCM. Part I: control SIMULATIONS. *J. Climate* 12: 2010-2030.
- Leung, L. R. and S. J. Ghan. 1999b. Pacific Northwest climate sensitivity simulated by a regional climate model driven by a GCM. Part II: 2 X CO<sub>2</sub> simulations. *J. Climate* 12: 2031-2053.
- Levin, D. A. 1970. Developmental instability and evolution in peripheral isolates. *Amer. Natur.* 104: 343-353.
- Levin, S. A. 1976. Population dynamic models in heterogeneous environments. *Ann. Rev. Ecol. Syst.* 7: 287-310.
- Levin, S. A. 1992. The problem of pattern and scale in ecology. *Ecology* 73: 1943-1967.
- Levine, N. D. 1953. A review of the coccidia from the avian orders Galliformes, Anseriformes, and Charadriiformes with descriptions of three new species. *Amer. Mid. Natur.* 49: 696-719.

- Levins, R. 1970. Extinction. Pages 75-107 IN M. Gerstenhaber (ed.). SOME MATHEMATICAL QUESTIONS IN BIOLOGY. Amer. Math. Soc. Providence, RI.
- Lewin, R. 1982. Extinction leaves its mark on ecology. Science 218: 42-43.
- Lewis, J. B., J. D. McGowan, T. S. Baskett. 1968. Evaluating ruffed grouse reintroduction in Missouri. J. Wildl. Manage. 32: 17-28.
- Lewontin, R. C. 1974. THE GENETIC BASIS OF EVOLUTIONARY CHANGE. Columbia Univ. Press New York, NY.
- Lewontin, R. C. and D. Cohen. 1969. On population growth in a randomly varying environment. Proc. Natl. Acad. Sci. 62: 1056-1060.
- Licht, D. S. 1997. ECOLOGY AND ECONOMICS OF THE GREAT PLAINS. Univ. Nebraska Press Lincoln, NE.
- Ligon, J. S. 1946. Upland game bird restoration through trapping and transplanting. Univ. New Mexico Publ. Biol. 2. 77 pages.
- Ligon, J. S. 1961. NEW MEXICO BIRDS. Univ. New Mexico Press. Albuquerque, NM.
- Limerick, P. N. 1987. THE LEGACY OF CONQUEST. W. W. Norton & Co. New York, NY.
- Linden, H. and P. Rajala. 1981. Fluctuations and long-term trends in the relative densities of tetraonid populations in Finland, 1964-77. Finn. Game Res. 39: 13-34.
- Lindenmayer, D. B., T. W. Clark, R. C. Lacey, V. C. Thomas. 1993. Population viability analysis as a tool in wildlife conservation policy: with reference to Australia. Environ. Manage. 17: 745-758.
- Linhart, Y. B. 1995. Restoration, revegetation, and the importance of genetic and evolutionary perspectives. Pages 271-287 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- Link, S. O., M. E. Thiede, R. D. Evans, J. L. Downs, G. W. Gee. 1995. Responses of big sagebrush and spiny hopsage to increasing water stress. Pages 196-201 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- Linsdale, J. M. 1936. The birds of Nevada. Pacific Coast Avifauna No. 23. Cooper Ornithol Club. Berkeley, CA. 145 pages.
- Linsdale, J. M. 1951. A list of the birds of Nevada. Condor 53: 228-249.
- Liou, L. W., T. Price, M. S. Boyce, C. M. Perrins. 1993. Fluctuating environments and clutch size evolution in great tits. Amer. Natur. 141(3): 507-516.
- Littell, R. 1992. Endangered and other protected species: federal law and regulation. Bureau of National Affairs. Washington, DC.
- Littlefield, C. D. 1990. BIRDS OF MALHEUR NATIONAL WILDLIFE REFUGE, OREGON. Oregon State Univ. Press. Corvallis, OR.
- Littlefield, C. D. and S. P. Thompson. 1985. Greater sandhill cranes and common ravens on Malheur National Wildlife Refuge, Oregon: their history and relationship. Pages 156-166 IN Proc. Crane Workshop.
- Lobeck, A. K. 1956. THINGS MAPS DON'T TELL US. Univ. Chicago Press. Chicago, IL.

- Locke, N. L. and M. Friend. 1992. Lead poisoning of avian species other than waterfowl. D. J. Pain (ed.). Lead poisoning in waterfowl. Intl. Waterfowl and Wetlands Res. Bur. Gloucester, UK.
- Locke, S. B. 1932. The sage hen situation and its needs. Trans. Amer. Game Conf. 19: 408-410.
- Lockwood, J. A., W. P. Kemp, J. A. Onsager. 1988. Long-term, large-scale effects of insecticidal control of rangeland grasshopper populations (Orthoptera: Acrididae). J. Econ. Entomol. 81: 1258-1263.
- Loft, E. R., J. W. Menke, J. G. Kie, R. C. Bertram. 1987. Influence of cattle stocking rate on the structural profile of deer hiding cover. J. Wildlife Manage. 51(3): 655-664.
- Loft, E. R., J. W. Menke, J. G. Kie. 1991. Habitat shifts by mule deer: the influence of cattle grazing. J. Wildl. Manage. 55: 16-26.
- Lomolino, M. V. and R. Channell. 1995. Splendid isolation: patterns of geographic range collapse in endangered mammals. J. Mamal. 76(2): 335--347.
- Lomolino, M. V. and R. Channell. 1998. Range collapse, re-introductions, and biogeographic guidelines for conservation. Conserv. Biol. 12(2): 481-484.
- Long, M. M. 1999. Letter to D. C. Jasper Carlton, Biodiversity Legal Foundation. (dated July 1, 1999). ES-61411 pd/W.3000/wy2592.pd. (copy on file with author).
- Loomis, J. B., E. R. Loft, D. R. Updike, J. G. Kie. 1991. Cattle-deer interactions in the Sierra Nevada: a bioeconomic approach. J. Range Manage. 44(4): 395-399.
- Lords, J. L. 1951. Distribution, ecology and population dynamics of the sage grouse in Utah. M.S. thesis, Univ. Utah. Salt Lake City, UT. 61 pages.
- Lott, D. F. 1991a. American bison socioecology. Appl. Animal Behav. Sci. 29: 135-145.
- Lott, D. F. 1991b. INTRASPECIFIC VARIATION IN THE SOCIAL SYSTEMS OF WILD VERTEBRATES. Cambridge Univ. Press. New York, NY.
- Lott, D. F. and S. C. Minta. 1983. Home ranges of American bison cows on Santa Catalina Island. J. Mammal. 64: 161-162.
- Lovejoy, T. E. and D. C. Oren. 1981. The minimum critical size of ecosystems. Pages 8-12 IN R. L. Burgess and D. M. Sharpe (eds.). FOREST ISLAND DYNAMICS IN MAN-DOMINATED LANDSCAPES. Springer-Verlag. New York, NY.
- Lovejoy, T. E., R. O. Bierregaard, A. B. Rylands, J. R. Malcolm, C. E. Quintela, L. H. Harper, K. S. Brown, A. H. Powell, G. V. N. Powell, H. O. R. Schubart, M. B. Hays. 1986. Edge and other effects of isolation on amazon forest fragments. Pages 257-285 IN M. E. Soulé, M. E. (ed.). CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinauer Assoc. Sunderland, MA.
- Loveland, T. R., J. W. Merchant, D. O. Ohlen, [et al.]. 1991. Development of a land-cover characteristics database for the conterminous U.S. Photogr. Eng. Remote Sens. 57(11): 1453-1463.
- Lovell, D. C., J. R. Choate, S. J. Bissell. 1985. Succession of mammals in a disturbed area of the Great Plains. Southwestern Natur. 30: 335-342.
- Lovich, J. E. and D. Bainbridge. 1999. Anthropogenic disturbance of the Southern California desert ecosystem and prospects for natural recovery and restoration. Envl. Mange. 24: 309-326.

- Lowdermilk, W. C. 1930. Influence of forest litter on run-off, percolation and erosion. *J. Forestry* 28: 474-491.
- Lowdermilk, W. C. 1975. CONQUEST OF THE LAND THROUGH 7,000 YEARS. US GPO. Washington, DC.
- Lowe, D. W. 1990. THE OFFICIAL WORLD WILDLIFE FUND GUIDE TO ENDANGERED SPECIES OF NORTH AMERICA. VOL. 2. BIRDS, REPTILES, AMPHIBIANS. Beacham Publ. Washington, DC.
- Loye, J. E. and M. Zuk. 1991. BIRD-PARASITE INTERACTIONS: ECOLOGY, EVOLUTION, AND BEHAVIOUR. Oxford Univ. Press. New York, NY.
- Ludwig, J. A. and J. F. Reynolds. 1988. STATISTICAL ECOLOGY: A PRIMER ON METHODS AND COMPUTING. John Wiley & Sons. New York, NY. 337 pages.
- Lull, H. W. 1959. Soil compaction on forest and range lands. *Misc. Pub. #768. USDA*. Washington, DC.
- Lumsden, H. G. 1968. The displays of the sage grouse. *Ontario Dept. of Lands and Forests Res. Rep. (Wildlife)* No. 83.
- Lunetta, R. S., R. G. Congalton, L. K. Fenstermaker, [et al.]. 1991. Remote sensing and geographic information system data integration: error sources and research issues. *Photogr. Eng. Remote Sens.* 57(6): 677-687.
- Lunney, D., J. Barker, D. Priddel, [et al.]. 1988. Roost selection by Gould's long-eared bat, *Nyctophilus gouldi* Tomes (Chiroptera: Vespertilionidae), in logged forests on the south coast of New South Wales. *Australian Wildl. Research* 15: 375-384.
- Lusby, G. C. 1970. Hydrologic and biotic effects of grazing vs. non-grazing near Grand Junction, Colorado. *J. Range Manage.* 23: 256-260.
- Lyman, R. L. 1991. Late quaternary biogeography of the pygmy rabbit (*Brachylagus idahoensis*) in eastern Washington. *J. Mammal.* 72: 110-117.
- Lynch, J. F. and D. F. Whigham. 1984. Effects of forest fragmentation on breeding bird communities in Maryland, USA. *Biol. Conserv.* 28: 287-324.
- Lyon, J. 1966. Habitat preservation--sage grouse and sagebrush control. Interagency Meeting on Control of Big Sagebrush. Mont. State Univ. Bozeman, MT.
- MacArthur, R. H. 1967. THE THEORY OF ISLAND BIOGEOGRAPHY. Princeton Univ. Press. Princeton, NJ.
- MacArthur, R. H. 1972. GEOGRAPHICAL ECOLOGY: PATTERNS IN THE DISTRIBUTION OF SPECIES. Harper and Row. New York, NY.
- MacArthur, R. H. and E. O. Wilson. 1963. An equilibrium theory of insular zoogeography. *Evolution* 17: 373-387.
- MacArthur, R. H. and E. O. Wilson. 1967. THE THEORY OF ISLAND BIOGEOGRAPHY. Princeton Univ. Press. Princeton, NJ.
- Mace, G. M. 1994. An investigation into methods for categorizing the conservation status of species. Pages 293-312 IN P. J. Edwards, R. N. May, N. R. Webb (eds.) LARGE-SCALE ECOLOGY AND CONSERVATION BIOLOGY. Blackwell Scientific. Oxford, England.
- Mace, G. M. and R. Lande. 1991. Assessing extinction threats: towards a reevaluation of IUCN threatened species categories. *Conserv. Biol.* 5: 148-157.

- MacGinitie, H. D. 1958. Climate since the late Cretaceous. Pages 61-79 IN C. L. Hubbs (ed.) ZOOGEOGRAPHY. Publ. no.51. Amer Ass'n Advancement Science. Washington, DC. 509 pages.
- Macintosh, G. (ed.). 1989. PRESERVING COMMUNITIES AND CORRIDORS. Defenders of Wildlife. Washington, DC. 96 pages.
- Mack, R. N. 1981. Invasion of *Bromus tectorum* (cheatgrass) into western North America: an ecological chronicle. Agro-Ecosystems 7: 145-165.
- Mack, R. N. 1981. Invasion of *Bromus tectorum* L. into western North America: an ecological chronicle. Agroecosystems 7: 145-165.
- Mack, R. N. 1989. Temperate grasslands vulnerable to plant invasions: characteristics and consequences. Pages 155-179 IN J. A. Drake, H. A. Mooney, F. DiCastri, [et al.]. BIOLOGICAL INVASIONS: A GLOBAL PERSPECTIVE. John Wiley & Sons. New York, NY. 525 pages.
- Mack, R. N. and J. N. Thompson. 1982. Evolution in steppe with few large, hooved mammals. Amer. Natur. 119(6): 757-772.
- Mackie, R. J., K. L. Hamlin, D. F. Pac, G. L. Dusek, A. K. Wood. 1990. Compensation in free-ranging deer populations. Trans. North Amer. Wildl. and Nat. Res. Conf. 55: 518-526.
- Mackle, R. J. 1970. Range ecology and relations of mule deer, elk, and cattle in the Missouri River Breaks, Montana. Wildl. Monogr. 20. 79 pages.
- Mackle, R. J. 1978. Impacts of livestock grazing on wild ungulates. Trans. North Amer. Wildlife and Natural Resources Conf. 43: 462-476.
- Madsen, D. E. 1932. Report of sage grouse survey with reference to parasites and disease. Utah Agric. Exp. Stn. Ext. Service, Misc. Publ. 10: 22-24.
- Madsen, J. 1985. Impact of disturbance on field utilization of pink-footed geese in West Jutland, Denmark. Biol. Conserv. 33: 53-63.
- Maguire, L. A. 1991. Risk analysis for conservation biologists. Conserv. Biol. 5: 123-125.
- Magurran, A. E. 1988. ECOLOGICAL DIVERSITY AND ITS MEASUREMENT. Princeton Univ. Press. Princeton, NJ.
- Malcomson, R. O. 1960. Mallophaga from birds of North America. Wilson Bull. 72: 182-197.
- Malmsbury, T. 1996. Decline in habitat threatening sage grouse. Wildlife Report. Colorado Div. Wildlife. Denver, CO.
- Malone, M. P. and R. W. Etulain. 1989. THE AMERICAN WEST: A TWENTIETH CENTURY HISTORY. Univ. Nebraska Press. Lincoln, NB.
- Manahan, S. E. 1999. ENVIRONMENTAL CHEMISTRY. Lewis Publishers. Boca Raton, FL.
- Mangan, L. and Autenrieth, R. 1985. Vegetation changes following 2,4-D application and fire in a mountain big sagebrush habitat type. Pages 61-65 IN K. Sanders, J. Durham, [et al.] (eds.). Proc. Rangeland Fire Effects: A Symposium; Nov. 27-29, 1984, Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- Manly, W. M. 1916. Sage hens in Mono National Forest. Calif. Fish and Game 2: 163.
- Mann, C. C. 1991. Extinction: are ecologists crying wolf? Science 253(5021): 736-738.
- Mantel, N. 1973. Synthetic retrospective studies and related topics. Biometrics 29: 479-486.
- Marble, J. R. and K. T. Harper. 1989. Effect of timing of grazing on soil-surface cryptogamic communities in a Great Basin low-shrub desert: a preliminary report. Great Basin Natur. 49(1): 104-107.

- Marcot, B. G. 1997. Research information needs on terrestrial vertebrate species of the interior Columbia River basin and northern portions of the Klamath and Great Basins: a research, development, and application database. RN-522. USDA – Forest Service. Portland, OR.
- Marcot, B. G., L. K. Croft, J. F. Lehmkuhl, R. H. Naney, [et al.]. 1998. Macroecology, paleoecology, and ecological integrity of terrestrial species and communities of the interior Columbia River basin and northern portions of the Klamath and Great Basins. Gen. Tech. Rep. PNW-410. USDA – Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Marcum, C. L. and D. O. Loftsgaarden. 1980. A nonmapping technique for studying habitat preferences. *J. Wildl. Manage.* 44: 963-968.
- Margules, C. and M. B. Usher. 1981. Criteria used in assessing wildlife conservation potential: a review. *Biol. Conserv.* 21: 79-109.
- Marlow, C. B. and T. M. Pogacnik. 1985. Time of grazing and cattle-induced damage to streambanks *IN* R. R. Johnson, C. D. Ziebell, D. R. Patton, [et al.] (tech. coords.) Riparian ecosystems and their management: reconciling conflicting uses. Gen. Tech. Rep. RM-120. USDA – Forest Service.
- Marlow, C. B., [et al.]. 1989. Response of a southwest Montana riparian system to four grazing management alternatives. Pages 111-116 *IN* R. E. Gresswell, B. A. Barton., J. L. Kershner (eds). Practical Approaches to Riparian Resource Management: An Educational Workshop, May 8-11, 1989. USDI-BLM. Billings, MT.
- Marquiss, R. and R. Lang. 1959. Vegetational composition and ground cover of two natural relict areas and their associated grazed areas in the Red Desert of Wyoming. *J. Range Manage.* 12: 104-109.
- Marshall, D. B. 1969. ENDANGERED PLANTS AND ANIMALS OF OREGON. VOL. 3. BIRDS. Special report. Oregon State Univ., Agric. Exp. Stn. Corvallis, OR.
- Marshall, D. B. 1992. Sensitive vertebrates of Oregon. Oregon Dept. Fish and Wildl. Portland, OR.
- Marshall, D. B. 1996. Species at risk: sensitive, threatened and endangered vertebrates of Oregon. 2<sup>nd</sup> ed. Oregon Dept. Fish and Wildl. Portland, OR.
- Marten, K. and P. Marler. 1977. Sound transmission and its significance for animal vocalization. I. Temperate habitats. *Behav. Ecol. Sociobiol.* 2: 271-290.
- Martin, A. C., H. S. Zim, A. L. Nelson. 1951. AMERICAN WILDLIFE AND PLANTS. McGraw-Hill Book Co. New York, NY. 500 pages.
- Martin, B. P. 1990. THE GLORIOUS GROUSE: A NATURAL AND UNNATURAL HISTORY. David and Charles. London, England.
- Martin, K., P. B. Stacey, C. E. Braun. 1998. Demographic rescue and maintenance of population stability in grouse – beyond metapopulations. White-tailed ptarmigan populations following site and regional level failure. *Wildl. Biol.* 3: 295-296.
- Martin, M. D. 1942. Sage grouse report. *Wyo. Wildl.* 7(11): 9.
- Martin, N. S. 1965. Effects of chemical control of sagebrush on the occurrence of sage grouse in southwestern Montana. M.S. thesis, Montana State Univ. Bozeman, MT. 38 pages.
- Martin, N. S. 1970a. Sagebrush control related to habitat and sage grouse occurrence. *J. Wildl. Manage.* 34(2): 313-320.

- Martin, N. S. 1970b. Sagebrush control related to habitat and sage grouse occurrence. M.S. thesis, Montana State Univ. Bozeman, MT.
- Martin, N. S. 1976. Life history and habitat requirements of sage grouse in relation to sagebrush treatment. Proc. West. Assoc. State Game and Fish Comm. 56: 289-294.
- Martin, N. S. and D. Pyrah. 1971. Sage Grouse. Pages 135-141 IN T. W. Mussehl and F. W. Howell (eds.). Game Management in Montana. Federal Aid Project W-3-C. Montana Game and Fish Dept. Helena, MT.
- Martin, P. S. 1958. Pleistocene ecology and biogeography of North America. Pages 375-420 IN C. L. Hubbs (ed.). ZOOGEOGRAPHY. Publ. no. 51. Amer. Ass'n Advancement Science. Washington, DC. 509 pages.
- Martin, R. C. 1990. Sage grouse responses to wildfire in spring and summer habitats. M.S. thesis, Univ. Idaho. Moscow, ID.
- Marzluff, J. M. 1986. Assumptions and design of regression experiments: the importance of lack-of-fit testing. Pages 165-170 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.) WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Marzluff, J. M. and R. Sallabanks. 1998a. AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC. 563 pages.
- Marzluff, J. M. and R. Sallabanks. 1998b. Past approaches and future directions for avian conservation biology. Pages 5-11 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Maser, C. (ed.) 1974. The sage vole, *Lagurus curtatus* (Cope 1868), in the Crooked River National Grassland, Jefferson County Oregon: a contribution to its life history and ecology. Säugetierkundliche Mitteilungen 22: 193-222.
- Maser, C., J. W. Thomas, R. G. Andersen. 1984. Wildlife habitats in managed rangelands—the Great Basin of southeastern Oregon IN The Relationship of Terrestrial Vertebrates to Plant Communities. Gen. Tech. Rep. PNW-172. USDA-Forest Service, Pacific Northwest Res. Stn. and USDI-BLM LaGrande, OR.
- Masson, W. V. and R. U. Mace. 1962. Upland game birds. Oregon State Game Comm. Wildl. Bull. 5. 44 pages.
- Masson, W. V. and R. U. Mace. 1974. Upland game birds. Oregon State Game Comm. Wildl. Bull. 5. 44 pages. (revised printing)
- Masson, W. V. Mace, R. U. Mace. 1970. Upland game birds. Oregon State Game Comm Wildl. Bull. 5.
- Master, L. L. 1991. Assessing threats and conservation biology.
- Matthiessen, P. 1959. WILDLIFE IN AMERICA. Viking Press. New York, NY.
- Mattise, S. N. 1995. Sage grouse in Idaho: Forum '94. Tech. Bull. No. 95-15. USDI-BLM, Idaho State Office. Boise, ID. 10 pages.
- May, R. M. 1994. The effects of spatial scale on ecological questions and answers. Pages 1-17 IN P. J. Edwards, R. M. May, N. R. Webb (eds.). LARGE-SCALE ECOLOGY AND CONSERVATION BIOLOGY. Blackwell Science. Oxford, England.
- May, R. M., J. H. Lawton, N. E. Stork. 1995. Assessing extinction rates. Pages 1-24 IN J. H. Lawton and R. M. May (eds.). EXTINCTION RATES. Oxford Univ Press. Oxford, United Kingdom.

- May, S. A. and T. W. Norton. 1996. Influence of fragmentation and disturbance on the potential impact of feral predators on native fauna in Australian forest ecosystems. *Wildl. Res.* 23: 387-400.
- May, T. A. 1970. Effects of sagebrush control on distribution and abundance of sage grouse. *Job Compl. Rep. W-37-R-23*, Work Plan 3, job 8a. Colo. Dept. Game, Fish, and Parks. Pages 115-138.
- May, T. A. and B. E. Poley. 1969. Sage grouse telemetry in North Park, Colorado. *Proc. West. States Sage Grouse Workshop* 6: 94.
- May, T. A. and B. E. Poley. 1969. Spring and summer movements of female sage grouse in North Park, Colorado. *Proc. West. States Sage Grouse Workshop* 6: 173-179.
- Mayeux, H. S., H. B. Johnson, H. W. Polley. 1994. Potential interactions between global change and intermountain annual grasslands. Pages 95-100 *IN* S. B. Monsen and S. G. Kitchen (compilers). *Proc. Ecology and Management of Annual Rangelands*. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Mayr, E. 1946. History of the North American bird fauna. *Wilson Bull.* 58: 1-68.
- Mayr, E. 1963. *ANIMAL SPECIES AND EVOLUTION*. Belknap Press, Harvard Univ. Cambridge, MA.
- Mayr, E. 1963. *ANIMAL SPECIES AND EVOLUTION*. Harvard Univ. Press. Cambridge, MA.
- Mayr, E. 1963. *POPULATIONS, SPECIES AND EVOLUTION*. Harvard Univ. Press. Cambridge, MA.
- Mayr, E. 1982. Speciation and macroevolution. *Evolution* 36: 1119-1132.
- McAdoo, J. K. and J. A. Young. 1980. Jackrabbits. *Rangelands* 2: 135-138.
- McArthur, E. D. 1983. Taxonomy, origin, and distribution of big sagebrush (*Artemesia tridentata*) and allies (subgenus *Tridentatae*). Pages 3-13 *IN* K. L. Johnson (ed.). *Proc. First Utah Shrub Ecology Workshop*. Utah State Univ. Logan, UT.
- McArthur, E. D. 1994. Ecology, distribution, and values of sagebrush within the Intermountain Region. Pages 347-351 *IN* S. B. Monsen and S. G. Kitchen (compilers). *Proc. Ecology and Management of Annual Rangelands*. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- McArthur, E. D. and A. P. Plummer. 1978. Biogeography and management of native western shrubs: a case study, section *Tridentatae* of *Artemesia*. *Great Basin Natur. Mem.* 2: 229-243.
- McArthur, E. D. and J. E. Ott. 1996. Potential natural vegetation in the 17 conterminous western United States. Pages 16-28 *IN* J. R. Barrow, E. D. McArthur, R. E. Sosebee, R. J. Tausch (compilers). *Proc. Shrubland Ecosystem Dynamics in a Changing Environment*; May 23-25, 1995; Las Cruces, NM. Gen. Tech. Rep. INT-338. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT. 275 pages.
- McAuliffe, J. R. 1997. Rangeland water developments: conservation solution or illusion? *Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments*; Nov. 13-15, 1997. Arizona State University College of Law. Tempe, AZ.
- McBride, R., N. R. French, A. H. Dahl, J. E. Detmer. 1978. Vegetation types and surface soils of the Idaho National Engineering Laboratory site. Dept. of Energy, Idaho Operations Office. Idaho Falls, ID. 29 pages.

- McCluskey, C. 1979. Red-tailed hawk preys on adult sage grouse in northern Utah. *Raptor Res.* 13(4): 123.
- McCollough, S. A. 1992. Habitat suitability model: sage grouse eco-regions 3111 and 3112. USDI-Fish and Wildlife Service, Ecological Services. Ft. Collins, CO.
- McCreary, O. 1939. WYOMING BIRD LIFE. Rev. ed. Burgess Publ. Co. Minneapolis, MN.
- McDowell, K. 1956. The proud strutter. *Wyo. Wildl.* 20(8): 4-7.
- McDowell, M. Effects of prescribed burning on sage grouse habitat. M.S. thesis, Oregon State Univ. Corvallis, OR.
- McEwan, L. C. and R. L. Brown. 1966. Acute toxicity of dieldrin and malathion to wild sharp-tailed grouse. *J. Wildl. Manage.* 30: 604-611.
- McEwen, L. C. 1982. Review of grasshopper pesticides vs. rangeland wildlife and habitat. Pages 362-382 IN J. M. Peek and P. D. Dalke (eds.). Proc. Wildlife-Livestock Relationships Symp., Apr. 20-22, 1981; Coeur d'Alene, ID. Univ. Idaho, Forest, Range and Exp. Stn. Moscow, ID. 614 pages.
- McGahan, J. 1968. Ecology of the golden eagle. *Auk* 85: 1-12.
- McGilchrist, C. A. 1992. Estimation in generalized mixed models.
- McGinty, W. A., F. S. Smeins, L. B. Merrill. 1979. Influence of soil, vegetation, and grazing management on infiltration rate and sediment production of Edwards Plateau rangeland. *J. Range Manage.* 32: 33-37.
- McInnis, M. L. 1996. Principles of successful livestock grazing in riparian ecosystems. USDA - Forest Service, Pacific Northwest Res. Stn. Natural Resource News 6(3): 1.
- McKean, J. W. 1952. Management of Oregon's native upland game birds. Proc. West. Assoc. State Game and Fish Comm. 32: 102-105.
- McKell, C. M., J. P. Blaisdell, J. R. Goodin. 1972. Wildland Shrubs - Their Biology and Utilization. Gen. Tech. Rep. INT-1. USDA- Forest Service.
- McLean, A. and E. W. Tisdale. 1972. Recovery rate of depleted range sites under protection from grazing. *J. Range Manage.* 25: 178-184.
- McLellan, C. H., A. P. Dobson, D. S. Wilcove, [et al.]. 1986. Effects of forest fragmentation on new- and old-world bird communities: empirical observations and theoretical implications. Pages 305-313 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- McMahan, C. A. and C. W. Ramsey. 1965. Response of deer and livestock to controlled grazing in central Texas. *J. Range Manage.* 18: 1-7.
- McNab, W. H. and P. E. Avers (comp.). 1994. Ecological subregions of the United States: section descriptions. WO-WSA-5. USDA--Forest Service, Administrative Publ. Washington, DC.
- McNaughton, S. J. Biodiversity and function of grazing ecosystems.
- McNeill, J. A. 1990. CONSERVING THE WORLD'S BIOLOGICAL DIVERSITY. IUCN, World Wildlife Fund. Washington, DC.
- McWhirter, D. 1998. Pinedale/Jackson region sage grouse job completion report, 1990-1996. Wyoming Game & Fish Dept. Cheyenne, WY.
- Mech, L. D. 1983. HANDBOOK OF ANIMAL RADIO TRACKING. Univ. Minnesota Press. Minneapolis, MN.

- Medin, D. E. 1990. Birds of an upper sagebrush-grass zone habitat in east-central Nevada. Res. Paper INT-433. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT.
- Medin, D. E. 1992. Birds of a Great Basin sagebrush habitat in east-central Nevada. Res. Paper INT-452. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT. 4 pages.
- Medin, D. E. and R. B. Ferguson. 1972. Shrub establishment on game ranges in the northwestern United States. Pages 359-368 IN C. M. McKell, J. P. Blaisdell, J. R. Goodin (technical eds.). *Wildland Shrubs: Their Biology and Utilization*. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Medin, D. E. and W. P. Clary. 1989. Small mammal populations in a grazed and ungrazed riparian habitat in Nevada. Res. Paper INT-413. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 5 pages.
- Medin, D. E. and W. P. Clary. 1990. Bird and small mammal populations in a grazed and ungrazed riparian habitat in Nevada. Res. Paper INT-425. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 8 pages.
- Medin, D. E. and W. P. Clary. 1991. Breeding bird populations in a grazed and ungrazed riparian habitat in Nevada. Res. Paper INT-441. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 7 pages.
- Meehan, W. R. and W. S. Platts. 1978. Livestock grazing and the aquatic environment. *J. Soil Water Conserv.* 33: 274-278.
- Meffe, G. K. and C. R. Carroll (eds.). 1994. *PRINCIPLES OF CONSERVATION BIOLOGY*. 2<sup>nd</sup> ed. Sinauer Assoc. Sunderland, MA.
- Meffe, G. K., P. D. Boersma, D. D. Murphy, B. R. Noon, H. R. Pulliam, M. E. Soulé, D. M. Waller. 1998. Independent scientific review in natural resource management. *Conserv. Biol.* 12(2): 268-270.
- Mehringer, P. J. 1986. Prehistoric environments. Pages 31-50 IN *HANDBOOK OF NORTH AMERICAN INDIANS*. VOL. 11. GREAT BASIN. Smithsonian Inst. Washington, DC. Smithsonian Inst. 852 pages.
- Mehringer, P. J. and P. E. Wigand. 1990. Comparison of late Holocene environments from woodrat middens and pollen: Diamond Craters, Oregon. Pages 294-325 IN J. L. Betancourt, T. R. Van Devender, P. S. Martin (eds.). *PACKRAT MIDDENS: THE LAST 40,000 YEARS OF BIOTIC CHANGE*. Univ. Arizona Press. Tucson, AZ.
- Menke, J. W., C. Davis, P. Beesley. 1998. Rangeland Assessment. Pages 901-945 IN *Sierra Nevada Ecosystem Project Final Report to Congress: Status of the Sierra Nevada*. Vol. 3. Assessments, Commissioned Reports, and Background Information. Centers for Water and Wildland Resources, Report No. 40. Univ. California. Davis, CA.
- Menkens, G. E. and M. S. Boyce. 1993. Comments on the use of time-specific and cohort life tables. *Ecology* 74(7): 2164-2167.
- Mentzer, L. W. 1950. Studies on plant succession in true prairie. *Ecol. Monogr.* 21: 255-267.
- Menzel, K. 1963. Sage grouse. *Outdoor Nebr.* 41(6): 34-35.
- Merriam, C. H. 1890. Results of a biological survey of the San Francisco Mountain region and desert of the Little Colorado, Arizona. North Amer. Fauna Series, no. 3. USDA-Div. Ornithology and Mammalogy. Washington, DC.

- Merriam, C. H. 1891. Results of a biological reconnaissance of south-central Idaho. North Amer. Fauna Series, no. 5. USDA-Div. Ornithology and Mammalogy. US GPO. Washington, DC.
- Merriam, C. H. 1899. Results of a biological survey of Mount Shasta, California. North Amer. Fauna Series, no. 16. US GPO. Washington, DC.
- Merriam, C. H. 1979. INDIAN NAMES FOR PLANTS AND ANIMALS AMONG CALIFORNIAN AND OTHER WESTERN NORTH AMERICAN TRIBES. Ballena Press. Socorro, NM. 296 pages.
- Merriam, G. 1984. Connectivity: a fundamental characteristic of landscape pattern. Pages 5-15 IN J. Brandt and P. Agger (eds.). PROCEEDINGS ON THE FIRST INTERNATIONAL SEMINAR ON METHODOLOGY IN LANDSCAPE ECOLOGICAL RESEARCH AND PLANNING. Intl. Assoc for Landscape Ecology. Roskilde, Denmark.
- Merrill, G. W. 1967. Grouse. Pages 111-119 IN NEW MEXICO WILDLIFE MANAGEMENT. New Mexico Dept. Game and Fish. Santa Fe, NM. 250 pages.
- Mertz, D. B. 1971a. Life history phenomena in increasing and decreasing populations. Pages 361-399 IN G. P. Patil, E. C. Pielou, W. E. Waters (eds.). STATISTICAL ECOLOGY. Penn State Univ. Press. University Park, PA.
- Mertz, D. B. 1971b. The mathematical demography of the California condor population. Amer Natur. 105: 437-453.
- Meyer, J. S. and M. S. Boyce. 1992. Life historical consequences of pesticides and other insults to vital rates IN THE POPULATION ECOLOGY AND WILDLIFE TOXICOLOGY OF AGRICULTURAL PESTICIDE USE: A MODELING INITIATIVE FOR AVIAN SPECIES.
- Meyer, S. E. 1994. Germination and establishment ecology of big sagebrush: implications for community restoration. Pages 244-251 IN S. B. Monsen and S. G. Kitchen (compilers) Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Meyers, A. V. 1946. History of sage grouse habitat development in Oregon. Proc. West. Assoc. State Game and Fish Comm. 26: 147-149.
- Meyers, C. 1999. Compromise looks best for ending grouse war. Denver Post. Denver, CO
- Mid-America Biological Assessment. 1998. Mid-America Rocky Mountain Loop Project – Biological Assessment. July, 1998. Utah State Office, BLM. Salt Lake City, UT.
- Mid-America Biological Survey 1998. Biological Survey Results for the Mid-America Pipeline Company/Williams Rocky Mountain Loop Project. August, 1998. Prepared by ENSR, Ft. Collins, CO and submitted to BLM. 6 page, unpaginated document, marked "selected pages," obtained in response to FOIA request to BLM Colorado State Office.
- Mid-America Environmental Assessment. 1998. Mid-America Rocky Mountain Loop Project – Environmental Assessment. EA no. UT-UTSO-98-2. July, 1998. BLM, Utah State Office. Salt Lake City, UT.
- Miller, A. H. 1934. Field experiences with mountain-dwelling birds of southern Utah. Wilson Bull. 46: 156-168.
- Miller, A. H. 1958. Origin and affinities of the birds of western North America. Page 155 IN C. L. Hubbs (ed.). ZOOGEOGRAPHY. Publ. no. 51. Amer. Ass'n Advancement Science Washington, DC. 509 pages. (abstract)

- Miller, B. K., P. D. Major, S. E. Backs. 1985. Movements and productivity of transplanted eastern wild turkeys in west-central Indiana farmland. Proc. National Wild Turkey Symp. 5: 233-244.
- Miller, M. W. 1994. Route selection to minimize helicopter disturbance of molting Pacific brant: a simulation. Arctic 47(4): 341-349.
- Miller, R. F. and J. A. Rose. 1995. Historic expansion of *Juniperus occidentalis* (western juniper) in southeastern Oregon. Great Basin Natur. 55: 37-45.
- Miller, R. F. and P. E. Wigand. 1994a. Holocene changes in semiarid pinyon-juniper woodlands. Biol. Sci. 44(7): 465-474.
- Miller, R. F. and P. E. Wigand. 1994b. Holocene changes in semiarid pinyon-juniper woodlands: response to climate, fire, and human activities in the U. S. Great Basin. Bioscience 7: 465-474.
- Miller, R. F., L. L. Eddleman. 1997. Temporal and spatial changes of sage grouse *Centrocercus urophasianus* habitat in the sagebrush ecosystem.
- Miller, R. F., P. Doescher, T. Purrington. 1991. Dry-wet cycles and sagebrush in the Great Basin. Spec. Rep. 880. Oregon State Univ. Agric. Exp. Stn.
- Miller, R. F., P. S. Doescher, T. Svejcar, M. R. Haferkamp. 1986. Growth and internal water status of three subspecies of *Artemisia tridentata*. Pages 347-352 IN E. D. McArthur and B. L. Welch (compilers). Proc. Symp. on the Biology of *Artemisia* and *Chrysothamnus*; July 9-13, 1984; Provo, UT. Gen. Tech. Rep. INT-200. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Miller, R. I. and L. D. Harris. 1977. Isolation and extirpations in wildlife reserves. Biol. Conserv. 12: 311-315.
- Miller, W. D. 1948. The strutting sage grouse. N. Dak. Outdoors 11(1): 10-11.
- Mills, L. S. and P. E. Smouse. 1994. Demographic consequences of inbreeding in small remnant populations. Amer. Natur. 144: 412-431.
- Mills, L. S., M. E. Soule, D. F. Doak. 1993. The keystone-species concept in ecology and conservation. BioScience 43: 219-224.
- Mills, L. S., M. E. Soulé, D. F. Doak. 1993. The keystone-species concept in ecology and conservation. BioScience 43(4): 219-224.
- Minta, S. C. and P. M. Kareiva. 1994. A conservation science perspective: conceptual and experimental improvements. Pages 275-304 IN T. W. Clark, R. P. Reading, A. L. Clarke (eds.) ENDANGERED SPECIES RECOVERY. Island Press. Washington, DC.
- Minutes of Fruitland Mesa/Crawford Sage Grouse Meeting of March 30, 1995. 3 pages, with 4 pages of printed attachments and 12 pages of handwritten notes.
- Mitchell, D. L. 1999. Distribution and status of sage grouse in Utah, 1998. Utah Div. Wildl. Resources, Salt Lake City, UT. 2 pages, dated March 15, 1999, with 3 page addendum containing a map and table.
- Moen, A. N., S. Whittemore, B. Buxton. 1992. Effects of disturbance by snowmobiles on hear rate of captive white-tailed deer *Odocoileus virginianus*. New York Fish & Game J. 29(2): 176-183.
- Moffitt, J. 1942. Apparatus for marking wild animals with colored dyes. J. Wildl. Manage. 6: 312-318.

- Mohr, C. O. 1947. Table of equivalent populations of North American small mammals Amer Midl. Natur. 37: 223-249.
- Molini, W. A. 1973. Upland meadows and sage grouse: status of their inter-related management in Nevada. Proc. West. States Sage Grouse Workshop 8: 39-44.
- Monmonier, M. 1996. HOW TO LIE WITH MAPS. 2<sup>nd</sup> ed. Univ. Chicago Press. Chicago, IL.
- Monsen, S. B. 1994. The competitive influences of cheatgrass (*Bromus tectorum*) on site restoration. Pages 43-50 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Monsen, S. B. and N. Shaw. 1986. Response of an alkali sagebrush/fescue site to restoration treatments. Pages 126-133 IN E. D. McArthur and B. L. Welch (compilers). Proc. Symp. on the Biology of *Artemisia* and *Chrysothamnus*; July 9-13, 1984; Provo, UT. Gen. Tech. Rep. INT-200. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Monsen, S. B. and S. G. Kitchen (compilers). 1994. Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Montana Dept. Fish, Wildlife and Parks. 1995. Ecological implications of sagebrush manipulation. Booklet. Montana Dept. Fish, Wildlife and Parks. 49 pages.
- Montana Dept. of Fish, Wildlife and Parks. 1993. Programmatic environmental impact statement, Montana Snowmobile Grant Program. Statewide Trails Program Coordinator, Montana Dept. of Fish, Wildlife & Parks. Helena, MT.
- Moomaw, J. C. 1956. Some effects of grazing and fire on vegetation in the Columbia Basin region, Washington. Ph.D. Diss., Washington State Univ. Pullman, WA.
- Moos, L. M. 1941. Sage hen eats grasshoppers. Auk 58: 255.
- Morill, W. 1975. Plastic pitfall trap. Environ. Entomol. 4: 596.
- Moritz, C. 1994b. Defining "evolutionary significant units" for conservation. Trends Ecol Evol. 9: 373-375.
- Moritz, W. E. 1988. Wildlife use of fire-disturbed areas in sagebrush steppe on the Idaho Natl Engineering Laboratory. M.S. thesis, Montana State Univ. Bozeman, MT. 135 pages.
- Morris, M. S., R. G. Kelsey, D. Griggs. 1976. The geographic and ecological distribution of big sagebrush and other woody *Artemisias* in Montana. Proc. Montana Acad. Sci. 36: 56-79.
- Morris, R. E. 1985. An analysis of wildlife and wildlife forage allocations by the BLM on six ranges of public land in south Idaho. Committee for Idaho's High Desert. Boise, ID. 9 pages.
- Morrison, C. F. 1888. A list of some birds of La Plata County, Colorado, with annotations. Ornithol. and Oology 13: 70-75, 107-108, 115-116, 139-140.
- Morrison, M. L. and B. G. Marcot. 1995. An evaluation of resource inventory and monitoring program used in National Forest planning. Environ. Manage. 19: 147-156.
- Morrison, M. L., B. G. Marcot, R. W. Mannon (eds.). 1992a. Habitat fragmentation. Pages 41-99 IN WILDLIFE-HABITAT RELATIONSHIPS: CONCEPTS AND APPLICATIONS. Univ. Wisconsin Press. Madison, WI. 343 pages.
- Morrison, M. L., B. G. Marcot, R. W. Mannon. 1992b. WILDLIFE-HABITAT RELATIONSHIPS: CONCEPTS AND APPLICATIONS. Univ. Wisconsin Press. Madison, WI.

- Morse, D. H. 1980. BEHAVIORAL MECHANISMS IN ECOLOGY. Harvard Univ. Press. Cambridge, MA.
- Morse, W. B. 1947. Oregon sage grouse. Ore. State Game Comm. Bull. 2(1): 1, 3, 7.
- Morton, E. S. 1975. Ecological sources of selection on avian sounds. Amer. Natur. 109: 17-34.
- Mosconi, S. L. and R. L. Hutto. 1982. The effect of grazing on the land birds of a western Montana riparian habitat. Pages 221-233 IN J. M. Peek and P. D. Dalke (eds.). Proc. Wildlife-Livestock Relationships Symp.; Apr. 20-22, 1981; Coeur d'Alene, ID. Univ. Idaho, Forest, Range and Exp. Stn. Moscow, ID. 614 pages.
- Mosley, J. C., S. C. Bunting, M. Hironaka. 1986. Determining range condition from frequency data in mountain meadows of central Idaho. J. Range Manage. 39: 561-565.
- Moss, R. 1968. Food selection and nutrition in ptarmigan (*Lagopus mutus*). Symp. Zool. Soc. Lond. 21: 207-216.
- Moss, R. 1972. Food selection by red grouse (*Lagopus lagopus scoticus* [Lath.]) in relation to chemical composition. J. Animal Ecol. 41: 411-428.
- Moss, R., A. Watson, R. Parr. 1975. Maternal nutrition and breeding success in red grouse (*Lagopus lagopus scoticus*). J. Animal Ecol. 44: 233-244.
- MOU (Memorandum of Understanding). 1995. Conservation and Management of Sage Grouse in North America. Memorandum of understanding among members of Western Assoc. of Fish and Wildlife Agencies. Recommended by resolution at Jan. 7, 1995, Directors' meeting of the Western Assoc. of Fish and Wildlife Agencies, San Diego, CA. 3 pages.
- Mozingo, H. N. 1987. SHRUBS OF THE GREAT BASIN: A NATURAL HISTORY. Univ. Nevada Press. Reno, NV. 342 pages.
- Mueggler, W. F. 1950. Effects of spring and fall grazing by sheep on vegetation of the Upper Snake River Plains. J. Range Manage. 25: 88-92.
- Mueggler, W. F. and J. P. Blaisdell. 1958. Effects on associated species of burning, rotobeating, spraying, and railing sagebrush. J. Range Manage. 11: 61-66.
- Muller, P. 1986. BIOGEOGRAPHY. Harper & Row. New York, NY.
- Munda, B. D. and S. E. Smith. 1995. Genetic variation and revegetation strategies for desert rangeland ecosystems. Pages 288-291 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- Murdoch, W. W. 1993. Individual-based models for predicting effects of global change. Pages 147-162 IN P. M. Kareiva, J. G. Kingsolver, R. B. Huley (eds.). BIOTIC INTERACTIONS AND GLOBAL CHANGE. Sinauer Assoc. Sunderland, MA.
- Murdoch, W. W. 1994. Population regulation in theory and practice. Ecology 73: 271-287.
- Murphy, D. D. and B. D. Noon. 1991. Coping with uncertainty in wildlife biology. J. Wildl. Manage. 55: 773-782.
- Murphy, D. E. 1990. Conservation biology and scientific method. Conserv. Biol. 4: 203-204.
- Murphy, D., D. Wilcove, R. F. Noss, J. Harte, [et al.]. 1994. On reauthorization of the Endangered Species Act. Conserv. Biol. 8(1): 1-5.
- Musil, D. D. Movements, survival, and habitat use of sage grouse translocated into the Sawtooth Valley, Idaho. M.S. thesis, Univ. Idaho. Moscow, ID. 72 pages.
- Musil, D. D., J. W. Connelly, K. P. Reese. 1993. Movements, survival, and reproduction of sage grouse translocated into central Idaho. J. Wildl. Manage. 57: 85-91.

- Musil, D. D., K. P. Reese, J. W. Connelly. 1994. Nesting and summer habitat use by translocated sage grouse (*Centrocercus urophasianus*) in central Idaho. Great Basin Natur. 54(3): 228-233.
- Myers, O. B. 1992. Sage grouse habitat enhancement: effects of sagebrush fertilization. Ph.D. Diss., Colorado State Univ. Fort Collins, CO. 89 pages.
- Myers, T. J. and S. Swanson. 1991. Aquatic habitat condition index, stream type, and livestock bank damage in northern Nevada. Water Resources Bull. 27: 667-677.
- Myers, T. J. and S. Swanson. 1992. Variation of stream stability with stream type and livestock bank damage in northern Nevada. Water Resources Bull. 28: 743-754.
- Myers, T. J. and S. Swanson. 1994. Grazing effects on pool forming features in central Nevada Pages 235-244 IN R. A. Marston and V. R. Hasfurther (eds.) Proc. Annual Symp. Effects of Human-Induced Changes on Hydrologic Systems. Amer. Water Resources Assoc. Jackson Hole, WY.
- Myers, T. J. and S. Swanson. 1995. Impact of deferred rotation grazing on stream characteristics in central Nevada: a case study. North Amer. J. Fisheries Manage. 15: 428-439.
- Myers, T. J. and S. Swanson. 1996a. Long-term aquatic habitat restoration: Mahogany Creek, Nevada, as a case study. J. Amer. Water Resources Assoc. 32: 241-252.
- Myers, T. J. and S. Swanson. 1996b. Temporal and geomorphic variations of stream stability and morphology: Mahogany Creek, Nevada. J. Amer. Water Resources Assoc. 32: 253-265.
- Myrberget, S. 1972. Fluctuations in a north Norwegian population of willow grouse Proc. Intern. Ornithol. Congr. 15: 107-120.
- National Geographic Society. 1987. FIELD GUIDE TO THE BIRDS OF NORTH AMERICA. 2<sup>nd</sup> ed National Geogr. Soc. Washington, DC. 464 pages.
- National Oceanic and Atmospheric Administration. 1983-1986. Climatological data Colorado Vols. 89-91 U.S. Dept. Commerce. Washington, DC.
- National Research Council. 1993. A BIOLOGICAL SURVEY FOR THE NATION. National Academy Press. Washington, DC. 205 pages.
- Navy, S. 1999. Letter to D. Carlton.
- Neel, L. A. 1980. Sage grouse response to grazing management in Nevada. M.S. thesis, Univ. Nevada. Reno, NV.
- Neff, D. J. and N. G. Woolsey. 1979. Effect of predation by coyotes on survival of antelope fawns on Anderson Mesa. Spec. Rep. No. 8., Fed. Aid Proj. W-78-R-24. Ariz. Game and Fish Dept., Res. Branch. 9 pages.
- Neff, D. J. and N. G. Woolsey. 1980. Coyote predation on neonatal fawns on Anderson Mesa, Arizona. Proc. Biennial Antelope States Workshop 9: 80-97.
- Neff, D. J., R. H. Smith, N. G. Woolsey. 1985. Pronghorn antelope mortality study. Fed. Aid Final Rep. W-78-R. Arizona Game and Fish Dept., Res. Branch. 18 pages.
- Nei, M., T. Maruyama, R. Chakraborty. 1975. The bottleneck effect and genetic variability in populations. Evolution 29: 1-10.
- Nelle, P. J. 1998. The long-term effect of fire on sage grouse nesting and brood-rearing habitats on the upper snake river plain. M.S. thesis, Univ. Idaho. Moscow, ID.
- Nelson, A. L. and A. C. Martin. 1953. Gamebird weights. J. Wildl. Manage. 17: 36-42.

- Nelson, B. A. 1955. Some interesting facts about our pheasant and sage grouse seasons. S. Dak. Conserv. Dig. 22(11): 2-4.
- Nelson, D. L. and C. F. Tiernan. 1983. Winter injury of sagebrush and other wildland shrubs in the western United States. Res. Paper INT-314. USDA-Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Nelson, O. C. 1955. A field study of sage grouse in southeastern Oregon, with special reference to reproduction and survival. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Nemick, J. J. 1971. 1970 ringnecked pheasant population trends, 1970 chukar partridge population trends, 1970 sharptail grouse population trends and management, 1970 sage grouse population trends and management. Wyoming Game and Fish Comm., Game Division, District VII. Cheyenne, WY.
- Nemick, J. J. 1972a. 1971 sage grouse population trends and management, 1971 sharptail grouse population trends and management, 1971 ringnecked pheasant population trends, 1971 chukar partridge population trends. Wyoming Game and Fish Comm., Game Division, District VII. Cheyenne, WY.
- Nemick, J. J. 1972b. A preliminary evaluation of the late September sage grouse hunting season in southeastern Natrona County. Wyoming Game and Fish Comm., Game Division, District VII. Cheyenne, WY.
- Nemick, J. J. 1974. Game bird survey--sage grouse population study. Project No. W-50-R-21, W-50-R-22. Wyoming Game and Fish Dept., Game Division. Cheyenne, WY.
- Neter, J., W. Wasserman, M. H. Kutner. 1989. APPLIED LINEAR REGRESSION MODELS. 2<sup>nd</sup> ed. Homewood Press. Irwin, IL. 667 pages.
- Neu, C. W., C. R. Byers, J. M. Peek. 1974. A technique for analysis of utilization-availability data. J. Wildl. Manage. 38: 541-545.
- Neumann, P. W. and H. G. Merriam. 1972. Ecological effects of snowmobiles. Can. Field Naturalist 86(3): 207-212.
- Nevins, A. (ed.). 1956. NARRATIVES OF EXPLORATION AND ADVENTURE BY JOHN CHARLES FREMONT. Longmans, Green. New York, NY.
- Nie, H. N., C. H. Hull, J. G. Jenkins, K. Steinbrenner, D. H. Bent. 1975. STATISTICAL PACKAGE FOR THE SOCIAL SCIENCES. 2<sup>nd</sup> ed. McGraw-Hill. New York, NY. 675 pages
- Niemuth, N. D. 1992. Effects of nest predation on breeding biology of sage grouse (*Centrocercus urophasianus*). M.S thesis, Univ. Wyoming. Laramie, WY.
- Niemuth, N. D. and M. S. Boyce. 1995. Spatial and temporal patterns of predation of simulated sage grouse nests at high and low nest densities: an experimental study. Can. J. Zool. 73(5): 819-825.
- Nimirr, M. B. and G. F. Payne. 1978. Effects of spring burning on a mountain range. J. Range Manage. 31: 259-263.
- Nisbet, R. A., S. H. Berwick, K. L. Reed. 1983. A spatial model of sage grouse habitat quality. Develop Env. Model. 5: 267-276.
- Nissen, P. E. 1989. Grazing program at the Yakima Training Center, Yakima, Washington: facts, historical records, and where the program is headed in the future--with 1992 addendum. Directorate of Environ. and Natur. Res. Yakima Training Ctr. Yakima, WA.

- Noon, B. R. 1992. Thoughts on the monitoring of terrestrial vertebrates. Pages 49-50 IN G. S. Butcher and S. Droege (eds.). NEEDS ASSESSMENT: MONITORING NEOTROPICAL MIGRATORY BIRDS. Cornell Lab. Ornithology. Ithaca, NY.
- Norland, J. E. 1984. Habitat use and distribution of bison in Theodore Roosevelt National Park. M.S. thesis, Montana State Univ. Bozeman, MT.
- Northeast Oregon Assembled Land Exchange and Environmental Impact Statement. 1997. USDI - BLM. Prineville, OR. (September 1997).
- Northeast Oregon Assembled Land Exchange and Final Environmental Impact Statement. 1998. USDI - BLM. Prineville, OR. (June 1998).
- Northern Sage Grouse Conservation Plan. 1999. 45 pages. (draft).
- Northwest Ecosystem Alliance (NWEA). 1999. Petition for a rule to list the Washington population of western sage grouse, *Centrocercus urophasianus phaios*, as "threatened" or "endangered" under the Endangered Species Act. Petition to the Office of Endangered Species of the United States Fish and Wildlife Service, May 14, 1999. Northwest Ecosystem Alliance. Bellingham, WA.
- Northwestern Sage Grouse Conservation Plan. 1999. Final draft publication. Northwest Colorado (Moffat County).
- Norton, B. (ed.). 1986. THE PRESERVATION OF SPECIES: THE VALUE OF BIOLOGICAL DIVERSITY. Princeton Univ. Press. Princeton, NJ.
- Norwakowski, N. A., [et al.]. 1982. Run wild: wildlife/habitat relationships. USDA-Forest Service, Southwest Region. US GPO. Washington, DC. 10 pages.
- Noss, R. 1999. A Citizen's Guide to Ecosystem Management. Biodiversity Legal Foundation Special Report. Biodiversity Legal Foundation. Boulder, CO. 33 pages.
- Noss, R. F. 1983. A regional landscape approach to maintain diversity. Bio Science 33(11): 700-706.
- Noss, R. F. 1987a. Corridors in real landscapes: a reply to Simberloff and Cox. Conserv. Biol. 1(2): 159-164.
- Noss, R. F. 1987b. From plant communities to landscapes in conservation inventories: a look at The Nature Conservancy (USA). Biol. Conserv. 41: 11-37.
- Noss, R. F. 1990a. Can we maintain biological and ecological integrity? Conserv. Biol. 4(3): 241-243.
- Noss, R. F. 1990b. Indicators for monitoring biodiversity: a hierarchical approach. Conserv. Biol. 4(4): 355-364.
- Noss, R. F. 1991a. Landscape connectivity: different functions at different scales. Pages 27-39 IN W. E. Hudson (ed.). LANDSCAPE LINKAGES AND BIODIVERSITY. Defenders of Wildlife. Island Press. Washington, DC. 194 pages.
- Noss, R. F. 1991b. Sustainability and wilderness. Conserv. Biol. 5(1): 120-122.
- Noss, R. F. 1993a. Whither conservation biology. Conserv. Biol. 7(2): 212-217.
- Noss, R. F. 1993b. Wildlife corridors. Pages 43-68 IN D. S. Smith and P. C. Hellmund (eds.). ECOLOGY OF GREENWAYS. Univ. Minnesota Press. Minneapolis, MN.
- Noss, R. F. 1994. Cows and conservation biology. Conserv. Biol. 8(3): 613-616.
- Noss, R. F. 1996a. Conservation biology, values, advocacy. Conserv. Biol. 10(3): 904.
- Noss, R. F. 1996b. Conservation or convenience? Conserv. Biol. 10(4): 921-922.
- Noss, R. F. 1996c. Ecosystems as conservation targets. Trends Ecol. Evol. 11: 351.

- Noss, R. F. 1996d. On attacking a caricature of reserves: response to Everett and Lehmkuhl. *Wildlife Soc. Bull.* 24(4): 777-779.
- Noss, R. F. 1996e. The naturalists are dying off. *Conserv. Biol.* 10(1): 1-3.
- Noss, R. F. 1997. The failure of universities to produce conservation biologists. *Conserv. Biol.* 11(6): 1267-1269.
- Noss, R. F. 1999. Assessing and monitoring forest biodiversity - a suggested framework and indicators. *Forest Ecol. Manage.* 115(2): 135-146.
- Noss, R. F. and A. Cooperrider. 1994. *SAVING NATURE'S LEGACY: PROTECTING AND RESTORING BIODIVERSITY*. Defenders of Wildlife and Island Press. Washington, DC.
- Noss, R. F. and B. Csuti. 1997. Habitat fragmentation. Pages 269-304 IN G. K. Meffe and R. C. Carroll (eds.). *PRINCIPLES OF CONSERVATION BIOLOGY*. 2<sup>nd</sup> ed. Sinauer Assoc. Sunderland, MA.
- Noss, R. F. and L. D. Harris. 1986. Nodes, networks, and MUMs: preserving diversity at all scales. *Environ. Manage.* 10(3): 299-309.
- Noss, R. F. and R. L. Peters. 1995. *ENDANGERED ECOSYSTEMS: A STATUS REPORT ON AMERICA'S VANISHING HABITAT AND WILDLIFE*. Defenders of Wildlife, Washington, DC.
- Noss, R. F., E. T. LaRoe and J. M. Scott. 1995. Endangered ecosystems of the United States: a preliminary assessment of loss and degradation. *Biol. Report* 28. USDI-National Biological Service. Washington, DC.
- Noss, R. F., H. B. Quigley, B. Howard, M. G. Hornocker, T. Merrill, P. C. Paquet. 1996. Conservation biology and carnivore conservation in the Rocky Mountains. *Conserv. Biol.* 10(4): 949-963.
- Noss, R., M. A. O'Connell, D. D. Murphy, [et al ]. 1997. *THE SCIENCE OF CONSERVATION PLANNING, HABITAT CONSERVATION UNDER THE ENDANGERED SPECIES ACT*. World Wildlife Fund and Island Press. Washington, DC. 246 pages.
- NPS (National Park Service). 1999a. Gunnison sage grouse - significance of habitat as it relates to dispersal and genetic interchange. Project Statement BLCA-N-063.000 Grant Proposal, last updated March 29, 1999.
- NPS (National Park Service). 1999b. Inventory and Monitor -- Gunnison sage grouse. Project Statement CURE-N-046.000. Grant Proposal, last updated Feb. 9, 1999.
- NPS (National Park Service). 1999c. Letter to Mark N. Salvo from the National Park Service, Intermountain Region. Denver, CO. (hand stamped Sept. 13, 1999, IMR/99-262).
- NRC (Natl. Research Council). 1995a. Review of EPA's Environmental Monitoring and Assessment Program--Overall Evaluation. Natl. Acad. Press. Washington, DC.
- NRC (Natl. Research Council). 1995b. *SCIENCE AND THE ENDANGERED SPECIES ACT*. Natl. Acad. Press. Washington, DC.
- Nussbaum, R. A., E. D. Brodie, R. M. Storm. 1983. *AMPHIBIANS AND REPTILES OF THE PACIFIC NORTHWEST*. Univ. Idaho Press, Moscow, Idaho.
- Nuttall, T. 1974. *A MANUAL OF THE ORNITHOLOGY OF THE UNITED STATES AND OF CANADA*. Arno Press. New York, NY. (reprint of vol. 1 published in 1832 by Hilliard and Brown, Cambridge, MA.; and vol. 2 published in 1834 by Hilliard, Gray, Boston, MA.)
- Oakes, K. M. 1976. Vertebrates of Coal Creek, Wyoming. M.S. thesis, Univ. Wyoming. Laramie, WY. 105 pages.

- Oakleaf, R. J. 1971. Relationship of sage grouse to upland meadows in Nevada. M.S. thesis, Univ. Nevada Reno, NV. 64 pages.
- Ober, E. H. 1920. The life history of the sage hen. Calif. Fish and Game 6: 12-14.
- O'Connell, M. A. and R. F. Noss. 1992. Private land management for biodiversity conservation. Env. Manage. 16(4): 435-450.
- O'Connor, R. J. 1986. Dynamical aspects of avian habitat use. Pages 235-239 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- O'Donald, P. 1980. GENETIC MODELS OF SEXUAL SELECTION. Cambridge Univ. Press. Cambridge, England.
- Odum, E. P. and E. J. Kuenzler. 1955. Measurement of territory and home range size in birds. Auk 72: 128-137.
- Odekoven, O. O. 1996. Twentieth Western States Sage and Columbian Sharp-tailed Grouse Workshop Trans. Western Assoc. of Fish and Game Agencies. Gillette, WY
- Oehler, J. D. and J. A. Litvaitis. 1996. The role of spatial scale in understanding responses of medium-sized carnivores to forest fragmentation. Can. J. Zoology 74: 1070-1079.
- O'Gara, B. W. and J. D. Yoakum (eds.). 1992. Pronghorn management guides. Proc. Pronghorn Antelope Workshop. Rock Springs, WY. 101 pages.
- Ohmart, R. D. 1996. Historical and present impacts of livestock grazing on fish and wildlife resources in western riparian habitats. Pages 245-279 IN P. R. Krausman (ed.) RANGELAND WILDLIFE. Soc. Range Manage. Denver, CO.
- Olendorff, R. R. 1976. The food habits of North American golden eagles. Amer. Midl. Natur. 95: 231-236.
- Oliphant, J. O. 1968. ON THE CATTLE RANGES OF THE OREGON COUNTRY. Univ. Washington Press. Seattle, WA.
- Olterman, J. 1972. Memorandum dated June 12, 1977 to Harvey Donoho re 1979 sage grouse strutting ground counts.
- O'Neill, L. J. and A. B. Carey. 1986. Introduction: when habitats fail as predictors. Pages 207-208 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Ongerth, J. E. and H. H. Stibbs. 1987. Identification of *Cryptosporidium oocysts* in river water. Appl. Environ. Microb. 53: 672-676.
- Open Spaces/Casper Star Tribune. 1995. The sage grouse setback.
- Ord, G. 1974. A reprint of the North American zoology. EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS. Arno Press. New York, NY. (reprinted 1974 in Natural Sciences in America).
- Oregon Biodiversity Project. 1998. OREGON'S LIVING LANDSCAPE: STRATEGIES AND OPPORTUNITIES TO CONSERVE BIODIVERSITY. Defenders of Wildlife. Oregon State Univ. Press. Corvallis, OR.
- Oregon Dept of Fish and Wildlife. 1991. Sensitive, threatened, and endangered vertebrates of Oregon.
- Oregon Dept. Fish and Wildlife. 1993. Application of the habitat mitigation policy to juniper woodland management. Habitat Conservation Div. 30 pages.

- Oregon Dept. Fish and Wildlife. Juniper Woodland Management: An Application of the Fish and Wildlife Habitat Mitigation Policy. 1994. ODFW, Habitat Cons. Div.
- Oregon State Game Comm. 1920. Annual Report. Portland, OR. 45 pages.
- Oregon State Game Comm. 1954. Biennial Report. Portland, OR. 48 pages.
- Oregon State Univ. undated. Effect of grazing on sage grouse. Unpubl. graduate student paper.
- O'Reilly, P. and S. J. Hannon. 1989. Predation of simulated willow ptarmigan nests: the influence of density and cover on spatial and temporal patterns of predation. Can J Zool. 67: 1263-1267.
- Orians, G. H. 1993. Endangered at what level? Ecol. Applic. 3: 206-208.
- Oring, L. W. 1982. Avian mating systems. Pages 1-92 IN D. Farner, J. R. King, K. Parkes (eds.). AVIAN BIOLOGY. Vol. VI. Academic Press. New York, NY. 490 pages.
- Orodho, A. B., M. J. Trlica, C. D. Bonham. 1990. Long-term heavy grazing effects on soil and vegetation in the Four Corners region. Southwestern Natur. 35(1): 9-14.
- Orr, H. K. 1975. Recovery from soil compaction on bluegrass range in the Black Hills. Trans. Amer. Soc. Agric. Engineers 18: 1076-1081
- Ottomeier, A. A. and J. A. Crawford. 1996. Revised measurements for classification of age of sage grouse from wings. Calif. Fish & Game 82(2): 61-65.
- Overmire, T. C. 1964. The effects of grazing upon the habitat utilization of the dickcissel (*Spiza americana*) and Bell's vireo (*Vireo bellii*) in north central Oklahoma. Dissertation Abstracts. 25(2): 1425.
- Owens, L. B., W. M. Edwards, R. W. Van Keuren. 1989. Sediment and nutrient losses from an unimproved, all-year grazed watershed. J. Envl. Quality 18: 232-238.
- Owens, L. B., W. M. Edwards, R. W. Van Keuren. 1996. Sediment losses from a pastured watershed before and after stream fencing. J. Soil Water Conserv. 51: 90-94.
- Owens, M. K. and B. E. Norton. 1990. Survival of juvenile basin big sagebrush under different grazing regimes. J. Range Manage. 43: 132-135.
- Owens, N. W. 1977. Responses of wintering brant geese to human disturbance. Wildfowl 28: 5-14.
- Oyler, S. J., C. E. Braun, K. P. Burnham. 1997. Use of a habitat-based model to predict sage grouse *Centrocercus urophasianus* occupancy of patches in southwestern Colorado.
- Oyler-McCance, S. J. 1999. Genetic and habitat factors underlying conservation strategies for Gunnison sage grouse. Ph.D. Dissertation, Colorado State Univ. Fort Collins, CO
- Pack, A. N. 1935. Chickens of the sagebrush, II. Nat. Mag. 25: 169-171.
- Packard, F. M. 1945. Birds of Rocky Mountain National Park. Auk 62: 371-394.
- Packard, F. M. 1950. THE BIRDS OF ROCKY MOUNTAIN NATIONAL PARK. Rocky Mtn. Nature Assoc. Estes Park, CO. 81 pages.
- Packer, P. E. 1953. Effects of trampling disturbance on watershed condition, runoff, and erosion. J. Forestry 51: 28-31.
- Padgett, G. 1957. Sage country showman. Wyo. Wildl. 21(9): 4-6.
- Paige, C. and S. A. Ritter. 1999. Birds in a sagebrush sea: managing sagebrush habitats for bird communities. Partners in Flight Western Working Group. Boise, ID.
- Paine, L., D. J. Undersander, D. W. Sample, G. A. Bartelt, T. A. Schatteman. 1996. Cattle trampling of simulated ground nests in rotationally grazed pastures. J. Range Manage. 49: 294-300.

- Painter, E. L. and A. J. Belsky. 1993. Application of herbivore optimization theory to rangelands of the western United States. *Ecol. Applic.* 3: 2-9.
- Palmer, M. W. 1992. The coexistence of species in fractal landscapes. *Amer. Natur.* 139: 375-397.
- Palmer, R. S. 1962. *HANDBOOK OF NORTH AMERICAN BIRDS*. Yale University Press. New Haven, CT.
- Palmer, W. C. 1965. Meteorological drought. U.S. Dept. Commerce Res. Paper 45. 58 pages.
- Palmer, W. L. and C. L. Bennett. 1963. Relation of season length to hunting harvest of ruffed grouse. *J. Wildl. Manage.* 27: 634-639.
- Parker, K. L., C. T. Robbins, T. A. Hanley. 1984. Energy expenditures for locomotion by mule deer and elk. *J. Wildlife Management* 48:474.
- Parker, R. R., C. B. Phillip, G. E. Davis. 1932. Tularemia occurrence in the sage hen, *Centrocercus urophasianus*. *Publ. Health Repts.* 47: 479-487.
- Parkes, K. C. 1958. The Palaearctic element in the New World avifauna. Pages 421-432 IN C. L. Hubbs (ed.). *ZOOGEOGRAPHY*. Publ. no. 51. Amer. Ass'n Advancement Science. Washington, DC. 509 pages.
- Parkes, K. C. and G. A. Clark. 1964. Additional records of avian egg teeth. *Wilson Bull.* 76: 147-154.
- Parmalee, P. W. 1969. California condor and other birds from Stanton Cave, Arizona. *J. Ariz. Acad. Sci.* 5: 204-206.
- Parmenter, R. R. and J. A. MacMahon. 1984. Factors influencing the distribution and abundance of ground-dwelling beetles (Coleoptera) in a shrub-steppe ecosystem: the role of shrub architecture. *Pedobiologia* 26: 21-34.
- Pascual, M. A. and M. D. Adkison. 1994. The decline of the Steller sea lion in the northeast Pacific: demography, harvest or environment? *Ecol. Applic.* 4: 393-403.
- Paton, P. W. C. 1994. The effect of edge on avian nest success: how strong is the evidence? *Conserv. Biol.* 8: 17-26.
- Patten, D. T. 1993. Herbivore optimization and overcompensation: does native herbivory on western rangelands support these theories? *Ecol. Perspectives* 3(1): 35-36.
- Patterson, R. L. 1949. Sage grouse along the Oregon Trail. *Wyo. Wildl.* 13(8): 4-15, 34-37.
- Patterson, R. L. 1950. Sage grouse distribution, populations and land use relationships. Wyoming Game and Fish Comm. 7 pages.
- Patterson, R. L. 1950. Sage grouse strutting habits. Wyoming Game and Fish Comm. 8 pages.
- Patterson, R. L. 1950a. Sage grouse populations and land-utilization patterns in the mountain west. *Trans. North Amer. Wildlife Conf.* 15: 384-399.
- Patterson, R. L. 1950b. The sage grouse in the Upper Green River Basin. *Proc. Western Assoc. State Game and Fish Comm.* 30: 173-179.
- Patterson, R. L. 1950c. The 1950 sage grouse season. *Wyo. Wildl.* 14(10): 18-21, 38.
- Patterson, R. L. 1952a. Sage grouse hunting seasons. *Wyo. Wildl.* 16(7): 10-13.
- Patterson, R. L. 1952b. The sage grouse in the Upper Green River basin of Wyoming. Ph.D. Diss., Univ. Michigan. Ann Arbor, MI. 474 pages.
- Patterson, R. L. 1952c. *THE SAGE GROUSE IN WYOMING*. Federal Aid to Wildlife Restoration Project 28-R. Sage Books, Inc. Denver, CO.

- Patterson, R. L. and D. Cram. 1949. Sage grouse in the west. Wyo. Wildl. 13(10): 10-13, 37-38.
- Patterson, R. L., E. F. Putnam, H. B. Sanderson. 1950. Trapping sage grouse in Wyoming. Wyo. Wildl. 14(3): 4-13.
- Pearson, L. C. 1965. Primary production in grazed and ungrazed desert communities of eastern Idaho. Ecology 46: 278-285.
- Pearson, T. G. 1917. The sage grouse. Bird-Lore 19: 112-115.
- Pearson, T. G. 1936. Birds of America. Part II. Garden City Publishing Co. New York, NY. 271 pages.
- Pease, C. M. and R. Lande. 1994. Population Viability Analysis IN THE ENCYCLOPEDIA OF THE ENVIRONMENT.
- Pease, C. M., R. Lande, J. J. Bull. 1989. A model of population growth, dispersal and evolution in a changing environment. Ecology 70: 1657-1664.
- Pechanec, J. F., G. Stewart, A. P. Plummer, J. H. Robertson, A. C. Hull, Jr. 1954. Controlling sagebrush on rangelands. Farmer's Bull. 2072. USDA. 36 pages.
- Pechanec, J. F., J. D. Pickford, G. Stewart. 1937. Effects of the 1934 drought on native vegetation of the upper Snake River Plains, Idaho. Ecology 18: 490-505.
- Peden, D. G., [et al.]. 1974. The trophic ecology of *Bison bison* L. on shortgrass plains. J. Appl. Ecol. 11: 489-497.
- Pederson, W. T. 1981. Sage grouse movements and seasonal use of habitats in eastern Washington. Pittman-Robertson Prog. Rep. W70-R20. Wash. Dept. Fish and Game. Olympia, WA.
- Pederson, W. T. 1982. Sage grouse status, distribution, movement, seasonal use of habitat, and habitat status in eastern Washington. Fed. Aid Wildl. Restor. Proj. W-70-R-21, Study VI, job 1, 2. Wash. Dept. Fish and Game. Olympia, WA.
- Pehrsson, O. 1987. Effects of body condition on molting in Mallards. Condor 89: 329-339.
- Pellant, M. 1990. The cheatgrass-wildfire cycle – are there any solutions? Pages 11-18 IN E. D. McArthur, E. M. Romney, S. D. Smith, P. T. Tueller (compilers). Proc. Symp. on Cheatgrass Invasion, Shrub Die-off, and Other Aspects of Shrub Biology and Management. Gen. Tech. Rep. INT-276. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 416 pages.
- Pellant, M. and C. Hall. 1994. Distribution of two exotic grasses on intermountain rangelands: status in 1992. Pages 109-112 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Pennock, D. S. and W. W. Dimmick. 1997. Critique of the evolutionary significant unit as a definition for "distinct population segments" under the U. S. Endangered Species Act. Conserv. Biol. 11(3): 611-19.
- Pennycuick, C. J., M. R. Fuller, J. J. Oar, S. J. Kirkpatrick. 1994. Falcon versus grouse: flight adaptations of a predator and its prey. J. Avian Biol. 25(1): 39-49.
- Pereira, J. M. C. and R. M. Itami. 1991. GIS-based habitat modeling using logistic multiple regression: a study of the Mt. Graham red squirrel. Photogram. Eng. and Rem. Sens. 57: 1475-1486.

- Perrins, C. M. and L. A. Middleton. 1985. ENCYCLOPEDIA OF BIRDS. Facts on File Publ. New York, NY.
- Peters, R. L. and R. F. Noss. 1995. America's endangered ecosystems. Defenders 70(4): 16.
- Peters, R. L. and T. E. Lovejoy (eds.). 1992. GLOBAL WARMING AND BIOLOGICAL DIVERSITY Island Press. Washington, DC.
- Petersen, B. E. 1980a. Evaluation of the effects of hunting regulations on sage grouse populations evaluation of census of females. Fed. Aid Wildl. Restor. Proj. W-37-R-33 Colo. Div. Wildlife. Denver, CO.
- Petersen, B. E. 1980b. Breeding and nesting ecology of female sage grouse in North Park, Colorado. M.S. thesis, Colorado State Univ. Fort Collins, CO. 86 pages.
- Petersen, B. E. and C. E. Braun. 1980. Patterns of growth rates and weight gain by juvenile sage grouse. J. Colo.-Wyo. Acad. Sci. 12(1): 43. (abstract).
- Peterson, J. G. 1969. The food habits and summer distribution of juvenile sage grouse in central Montana. M.S. thesis, Montana State Univ. Bozeman, MT. 39 pages
- Peterson, J. G. 1970a. Gone with the sage. Mont. Outdoors 5(9): 1-3.
- Peterson, J. G. 1970b. The food habits and summer distribution of juvenile sage grouse in central Montana. J. Wildl. Manage. 34: 147-155.
- Peterson, J. G. 1978. Gone with the sage. Proc. West. States Sage Grouse Workshop 8: 50 (abstract).
- Peterson, J. G. 1995. Ecological implications of sagebrush manipulation: a literature review. Proj. W-101-R-2. Montana Fish, Wildlife and Parks. Helena, MT. 49 pages.
- Peterson, M. J. and N. J. Silvy. 1994. Spring precipitation and fluctuations in Attwater's prairie chicken numbers: hypotheses revisited. J. Wildl. Manage. 58: 222-229.
- Peterson, M. J. and N. J. Silvy. 1996. Reproductive stages limiting productivity of the endangered Attwater's prairie chicken. Conserv. Biol. 10: 1264-1276.
- Peterson, R. T. 1990. A FIELD GUIDE TO WESTERN BIRDS. 3<sup>rd</sup> ed. Houghton-Mifflin. Boston, MA.
- Petrides, G. A. 1942. Age determination in American gallinaceous birds. Trans. N. Amer. Wildl. Conf. and Nat. Res. 7: 308-328.
- Pettingill, S. O. and Whitney, J. R. 1965. Birds of the Black Hills (partial). Cornell Lab. Ornithol. Special Publ. no. 1. Ithaca, NY.
- Pettingill, O. S. 1985. ORNITHOLOGY IN LABORATORY AND FIELD. 4<sup>th</sup> ed. Academic Press. Orlando, FL.
- Pevar, S. L. 1992. The rights of Indians and Tribes: the basic ACLU guide to Indian and Tribal rights. Southern Illinois Univ. Press. Carbondale, IL.
- Phillips, K. N. and A. S. Van Denburgh. 1971. Hydrology and geochemistry of Abert, Summer, and Goose Lakes and other closed-basin lakes in south-central Oregon. Geol. Surv. Professional Pap. 502-B. US GPO. Washington, DC. 88 pages.
- Phillips, R. L. and A. E. Beske. 1990. Distribution and abundance of golden eagles and other raptors in Campbell and Converse Counties, Wyoming. Fish and Wildlife Tech. Rep. 27. USDI-Fish and Wildlife Service. Washington, DC. 31 pages.
- Phillips, T. A. 1972. Information concerning sagebrush stand density and its effect on sage grouse habitat. Range Improvement Notes 17(1): 3-9. USDA - Forest Service, Intermountain Res. Stn. Ogden, UT.

- Pickett, S. T. A. and J. N. Thompson. 1978. Patch dynamics and the design of nature reserves. *Biol. Conserv.* 13: 27-37.
- Pickett, S. T. A. and M. L. Cadenasso. 1995. Landscape ecology: spatial heterogeneity in ecological systems. *Science* 269(5222): 331-334.
- Pickett, S. T. A., R. S. Ostfeld, M. Shachak, G. E. Likens (eds.). 1996. THE ECOLOGICAL BASIS OF CONSERVATION: HETEROGENEITY, ECOSYSTEMS, AND BIODIVERSITY. Chapman & Hall. New York, NY.
- Pickford, G. D. 1932. The influence of continued heavy grazing and of promiscuous burning on spring fall ranges in Utah. *Ecology* 13: 159-171.
- Picozzi, N. 1975. Crow predation on marked nests. *J. Wildl. Manage.* 39: 151-155.
- Pielou, E. C. 1979. BIOGEOGRAPHY. John Wiley & Sons. New York, NY.
- Pieper, R. D. 1978. MEASUREMENT TECHNIQUES FOR HERBACEOUS AND SHRUBBY VEGETATION. New Mexico State Univ. Press. Las Cruces, NM. 148 pages.
- Pieper, R. D. and R. K. Heitschmidt. 1988. Is short-duration grazing the answer? *J. Soil Water Conserv.* 43: 133-137.
- Pimm, S. L. 1986. Community stability and structure. Pages 309-329 IN M. E. Soulé (ed.). CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinauer Assoc. Sunderland, MA.
- Pimm, S. L. 1991. THE BALANCE OF NATURE? ECOLOGICAL ISSUES IN THE CONSERVATION OF SPECIES AND COMMUNITIES. Univ. Chicago Press. Chicago, IL.
- 
- Pimm, S. L. and A. Redfearn. 1988. The variability of population densities. *Nature* 334: 613-14.
- Pimm, S. L. and J. H. Lawton. 1998. Planning for biodiversity. *Science* 279: 2068-2069.
- Pimm, S. L. and M. E. Gilpin. 1989. Theoretical issues in conservation biology. Pages 287-305 IN J. Roughgarden, R. M. May, S. A. Levin (eds.). PERSPECTIVES IN ECOLOGICAL THEORY. Princeton Univ. Press. Princeton, NJ.
- Pimm, S. L., H. L. Jones, J. Diamond. 1988. On the risk of extinction. *Amer. Natur.* 132: 757-785.
- Pinon Mesa Conservation Plan (PMCP). Gunnison Sage Grouse Conservation Plan – Pinon Mesa, Colorado. Prepared by Pinon Mesa Sage Grouse Partnership. (revised May 25, 1999).
- Platts, W. S. 1978. Livestock interactions with fish and aquatic environments: problems in evaluation. *Trans. North Amer. Wildl. and Nat. Res. Conf.* 43: 498-504.
- Platts, W. S. 1981a. Sheep and streams. *Rangelands* 3: 158-160.
- Platts, W. S. 1981b. Influence of forest and rangeland management on anadromous fish habitat in western North America: 7. Effects of livestock grazing. *Gen. Tech. Rep. PNW-124.* USDA – Forest Service.
- Platts, W. S. 1989. Compatibility of livestock grazing fisheries. Pages 103-110 IN R. E. Gresswell, B. A. Barton, J. L. Kershner (eds). Practical Approaches to Riparian Resource Management: An Educational Workshop; May 8-11, 1989. USDI-BLM Billings, MT. 193 pages.

- Platts, W. S. 1990. Fish, wildlife and livestock protection of riparian areas. *Western Wildlands*, Summer: 16-19.
- Platts, W. S. and R. L. Nelson. 1989. Characteristics of riparian plant communities and streambanks with respect to grazing in northeastern Utah. Pages 73-81 IN R. E. Gresswell, B. A. Barton, J. L. Kershner (eds). *Practical Approaches to Riparian Resource Management: An Educational Workshop*; May 8-11, 1989. USDI-BLM, Billings, MT. 193 pages.
- Platts, W. W. 1981. Streamside management to protect bank-channel stability and aquatic life. Pages 245-255 IN D. M. Baumgartner (ed.). *Interior West Watershed Management: Proc. from a Symp.* Washington State Univ., Coop. Ext. Pullman, WA.
- Plumb, G. E., L. J. Krysl, M. E. Hubbert, M. A. Smith, J. W. Waggoner. 1984. Horses and cattle grazing on the Wyoming Red Desert, III. *J. Range Manage.* 37: 130-132.
- Poethke, H. J., A. Seitz, C. Wissel. Species survival and metapopulations: conservation implications from ecological theory. Pages 82-92 IN *IMPLICATIONS FROM ECOLOGICAL THEORY*.
- Poley, B. E. 1969a. Effects of sagebrush control on distribution and abundance of sage grouse. Job Compl. Rep. W-37-R-22, Work Plan 3, job 8a. Colo. Dept. Game, Fish, and Parks. Pages 61-86.
- Poley, B. E. 1969b. Seasonal movements of sage grouse in Colorado. *Colo. Field Ornithol.* 5: 1-4.
- Polis, G. A., W. B. Anderson, R. D. Holt. 1997. Toward an integration of landscape and food web ecology: the dynamics of spatially subsidized food webs. *Ann. Rev. Ecol. Syst.* 28: 289-316.
- Polley, H. W., H. B. Johnson, H. S. Mayeux, C. R. Tischler. 1996. Impacts of rising CO<sub>2</sub> concentration on water use efficiency of woody grassland invaders. Pages 189-194 IN J. R. Barrow, E. D. McArthur, R. E. Sosebee, R. J. Tausch (compilers). *Proc. Shrubland Ecosystem Dynamics in a Changing Environment*, May 23-25, 1995, Las Cruces, NM. Gen. Tech. Rep. INT-338. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT. 275 pages.
- Popolizio, C. A., H. Goetz, P. L. Chapman. 1994. Short-term response of riparian vegetation to four grazing treatments. *J. Range Manage.* 47: 48-53.
- Porter, W. P., R. Hinsdill, A. Fairbrother, [et al.]. 1984. Toxicant-disease-environment interactions associated with suppression of immune system, growth, and reproduction. *Science* 224: 1014-1017.
- Post, G. 1951. Effects of toxaphene and chlordane on certain game birds. *J. Wildl. Manage.* 15: 381-386.
- Post, G. 1960. *Salmonella* species isolated from intestinal contents of five sage grouse. *Wildl. Dis. Surv. FW-3-R-7*. Wyo. Fish and Game Comm.
- Postovit, B. C. 1981. Suggestions for sage grouse habitat reclamation on surface mines in northeastern Wyoming. M.S. thesis, Univ. Wyoming. Laramie, WY.
- Potter, A. F. 1905. Grazing lands, western United States (map). USDA. US GPO Washington, DC.

- Potter, K. 1995. Sage grouse research in Montrose and the Gunnison Basin area – 1 April – 12 May, 1995. Upland Bird Res. W-167-R. Unpublished report, apparently prepared for Colo. Div. Wildlife; attached to Braun 1995h.
- Potter, L. B. 1923. Notes on birds in southwest Saskatchewan. Condor 25: 102-103.
- Potter, L. B. 1924. Unusual bird nesting records for southwest Saskatchewan. Condor 26: 110-111.
- Potter, L. S. and J. C. Kremetsky. 1967. Plant succession with released grazing on New Mexico rangelands. J. Range Manage. 20: 145-151.
- Potts, G. R. 1986. THE PARTRIDGE: PESTICIDES, PREDATION AND CONSERVATION. Collins Prof and Tech. Press. London, England.
- Potts, R. 1972. Discussion on the tetraonid symposium. Proc. Intern. Ornithol. Congr. 15: 182.
- Potvin, M. A. and A. T. Harrison. 1984. Vegetation and litter changes of a Nebraska sandhills prairie protected from grazing. J. Range Manage. 37: 55-58.
- Poulin, B., G. Lefebvre, R. McNeil. 1992. Tropical avian phenology in relation to abundance and exploitation of food resources. Ecology 73: 2295-2309.
- Pounds, M. A. 1997. Sagebrush (*Artemesia tridentata*) restoration in altered sage grouse (*Centrocercus urophasianus*) habitat of Yakima Training Center in Central Washington. M.S. thesis, Central Washington Univ. Ellensburg, WA.
- Press, S. J. and S. Wilson. 1978. Choosing between logistic regression and discriminant analysis. J. Amer. Statistical Assoc. 73: 699-705.
- Price, J., S. Droege, A. Price. 1995. THE SUMMER ATLAS OF NORTH AMERICAN BIRDS. Academic Press. New York, NY.
- Prill, A. G. 1922. Nesting birds of Lake County, Oregon (with special reference to the Warner Valley). Wilson Bull. 29: 131-140.
- Primack, R. B. 1993. ESSENTIALS OF CONSERVATION BIOLOGY. Sinauer Assoc. Sunderland, MA.
- Profera, J. 1986. Development of sage grouse viewing tours in North Park, Colorado. Fed. Aid Wildl. Restor. Proj. 02-06-200-N-5-R, Plan 23, job 1b. Colo. Div. Wildl. Fort Collins, CO. 23 pages.
- Pulliam, H. R. 1988. Sources, sinks, and population regulation. Amer. Natur. 132: 652-661.
- Pulliam, H. R. and B. Babbitt. 1997. Science and the protection of endangered species. Science 275: 499-500.
- Pullian, R. H. and B. J. Danielson. 1991. Sources, sinks, and habitat selection: a landscape perspective on population dynamics. Amer. Natur. 137: S50-S66. (supplement).
- Pyke, D. A. and M. M. Borman. 1993. Problem analysis for the vegetation diversity project. Tech. Note OR-936-01. USDI-BLM. Portland, OR.
- Pyke, D. A. and S. J. Novak. 1994. Cheatgrass demography-establishment attributes, recruitment, ecotypes, and genetic variability. Pages 12-21 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Pyle, W. H. 1993. Response of brood-rearing habitat of sage grouse to prescribed burning in Oregon. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Pyle, W. H. and J. A. Crawford. 1991. Food use and selection by sage grouse chicks in Oregon. Western States Sage and Columbian Sharp-tailed Grouse Workshop Trans. 17: 18.

- Pyle, W. H. and J. A. Crawford. 1996. Availability of foods of sage grouse chicks following prescribed burning in sagebrush-bitterbrush. *J. Range Manage.* 49: 320-324.
- Pyrah, D. B. 1954. A preliminary study toward sage grouse management in Clark and Fremont counties based on seasonal movement. M.S. thesis, Univ. Idaho. Moscow, ID.
- Pyrah, D. B. 1958a. Wyoming's sage grouse management program. *Proc. West. Assoc. State Game and Fish Comm.* 38: 184-186.
- Pyrah, D. B. 1958b. Sage grouse seasons - early vs. late. *Wyo. Wildl.* 22(9): 5-8.
- Pyrah, D. B. 1960. Eden Valley chicken seasons. *Wyo. Wildl.* 24(1): 26-29.
- Pyrah, D. B. 1961. Sage grouse investigations. Work plan I, job no. A. Artificial propagation of sage grouse for experimental purposes. Work plan I, job no. B. Ecological studies of sage grouse production areas. Job Completion Rep., Project W 125-R-1, Idaho Fish and Game Dept., Wildlife Restoration Div.
- Pyrah, D. B. 1963. Sage grouse investigations. Work plan 1, job A. Artificial propagation of sage grouse for experimental purposes; job B. Ecological studies of sage grouse production areas. Job Completion Rep., Project W 125-R-2. Idaho Fish and Game Dept., Wildlife Restoration Div.
- Pyrah, D. B. 1964a. Sage chickens in captivity. *Game Bird Breeders, Pheasant Fanciers and Aviculturists' Gazette* 13(9): 10-11.
- Pyrah, D. B. 1964b. Sage grouse investigations. Work plan 1, job A. Mapping of sage grouse range and distribution; job B. Mapping of current and proposed sage grouse ranges. Work plan 2, job A. Study of primary molt and ovarian development. Job Completion Report, Project W 125-R-3. Idaho Fish and Game Dept., Wildlife Restoration Div.
- Pyrah, D. B. 1965. Sage grouse investigations. Work plan 1, job A. Mapping of sage grouse range and distribution; job B. Mapping of current and proposed sage grouse ranges. Work plan 2, job A. Study of primary molt and ovarian development. Job Completion Report, Project W 125-R-4. Idaho Fish and Game Dept., Wildlife Restoration Div.
- Pyrah, D. B. 1966. Sage grouse investigations. Job A. Mapping of sage grouse range and distribution. Job B. Mapping of current and proposed sagebrush eradication projects on sage grouse ranges. Job C. Banding and marking study. Job Completion Report, Project W 125-R-5. Idaho Fish and Game Dept., Wildlife Restoration Div.
- Pyrah, D. B. 1969. Habitat selection and food habits studies of sage grouse in Montana. *Proc. West. States Sage Grouse Workshop* 6: 168-178.
- Pyrah, D. B. 1970a. Effects of chemical and mechanical sagebrush control on sage grouse. Pages 54-64 IN E. F. Schlatterer and D. B. Pyrah (eds.). *Ecological Effects of Chemical and Mechanical Sagebrush Control*. Montana Dept. Fish and Game. Helena, MT.
- Pyrah, D. B. 1970b. Poncho markers for game birds. *J. Wildl. Manage.* 34: 466-467.
- Pyrah, D. B. 1971. Sage grouse habitat research in central Montana. *Proc. West. Assoc. State Game and Fish Comm.* 51: 293-300.
- Pyrah, D. B. 1972. Effects of chemical and mechanical sagebrush control on sage grouse. Subject: dropping counts. Pages 16-25 IN *Ecological Effects of Chemical and Mechanical Sagebrush Control*. Montana Fish and Game Dept. Helena, MT.
- Pyrah, D. B. 1973. Sage grouse dropping count studies. *Proc. West. States Sage Grouse Workshop* 8: 53-54. (abstract).

- Quigley, T. M. and H. B. Cole. 1997. Highlighted scientific findings of the Interior Columbia Basin Ecosystem Management Project. Gen. Tech. Rep. PNW-404. USDA – Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Quigley, T. M. and S. J. Arbelbide (technical eds.). 1997d. An Assessment of Ecosystem Components in the Interior Columbia Basin and Portions of the Klamath and Great Basins. Volume IV - Terrestrial Ecology of the Basin. USDA – Forest Service, Pacific Northwest Res. Stn. PNW-GTR-405.
- Quigley, T. M. and S. J. Arbelbide (technical eds.). 1997a. An Assessment of Ecosystem Components in the Interior Columbia Basin and Portions of the Klamath and Great Basins. Vol. I - Introduction and Executive Summaries; Biophysical Environments of the Basin. Gen. Tech. Rep. PNW-405. USDA – Forest Service, Pacific Northwest Res. Stn.
- Quigley, T. M. and S. J. Arbelbide (technical eds.). 1997b. An Assessment of Ecosystem Components in the Interior Columbia Basin and Portions of the Klamath and Great Basins. Vol. II - Landscape Dynamics of the Basin. Gen. Tech. Rep. PNW-405. USDA – Forest Service, Pacific Northwest Res. Stn.
- Quigley, T. M. and S. J. Arbelbide (technical eds.). 1997c. An Assessment of Ecosystem Components in the Interior Columbia Basin and Portions of the Klamath and Great Basins. Vol. III - Broadscale Assessment of Aquatic Species and Habitats. Gen. Tech. Rep. PNW-405. USDA – Forest Service, Pacific Northwest Res. Stn.
- Quigley, T. M., H. R. Sanderson, A. R. Tiedemann (eds.). 1989. Managing interior northwest rangelands: the Oregon range evaluation project. Gen. Tech. Rep. PNW-238. USDA – Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- Quigley, T. M., R. W. Haynes, R. T. Graham. 1996. An integrated scientific assessment for ecosystem management in the interior Columbia Basin and portions of the Klamath and Great Basins. Gen. Tech. Rep. PNW-382. USDA-Forest Service, Pacific Northwest Res. Stn. Portland, OR. 303 pages
- Quimby, D. C. 1966. A review of literature relating to the effects and possible effects of sagebrush control on certain game species in Montana. Proc. West. Assoc. State Game and Fish Comm. 46: 142-149.
- Quimby, L. P. W. 1903. Reports of game and forestry warden to the governor of Oregon for the years 1901 and 1902. Oregon State Game Comm. 46 pages
- Quinn, J. F. and S. P. Harrison. 1988. Effects of habitat fragmentation and isolation on species richness: evidence from biogeographic patterns. Oecologia 75: 132-140.
- Quinn, T. W., N. W. Kahn, J. R. Young, [et al.]. 1994. Biogeographic distribution of mtDNA control region haplotypes in Sage Grouse. XXI International Ornithological Congress; Aug. 21-27, 1994; Vienna, Austria. (World Meeting Number 943 5007). Congress Secretariat. Vienna, Austria.
- Quinn, T. W., N. W. Kahn, J. R. Young, [et al.]. 1997. Probing the evolutionary history of sage grouse *Centrocercus urophasianus* populations using mitochondrial DNA sequence. Wildl. Biol. 3(3-4): 291.
- Rafinesque, C. S. 1820. Annals of nature: or annual synopsis of new genera and species of animals plants, and discoveries in North America. EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS. Arno Press. New York, NY. (reprinted 1974 in Natural Sciences in America).

- Raley, C. M. and S. H. Anderson. 1990. Availability and use of arthropod food resources by Wilson's warblers and Lincoln's sparrows in southeastern Wyoming. Condor 92: 141-150.
- Ralph, C. J. 1992. Designing and implementing a monitoring program and the standards for conducting point counts. Pages 204-207 IN D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA - Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Ralph, C. J. and J. M. Scott. 1981. Estimating numbers of terrestrial birds. Stud. Avian Biol. No. 6. Allen Press. Lawrence, KS.
- Ralph, C. J., G. R. Geupel, P. Pyle, T. E. Martin, D. F. DeSante. 1993. Handbook of field methods for monitoring landbirds. Gen. Tech. Rep. PSW-144. USDA - Forest Service, Pacific Southwest Res. Stn. Albany, CA. 41 pages.
- Ralphs, M. H., M. M. Kothmann, C. A. Taylor. 1990. Vegetation response to increased stocking rates in short-duration grazing. J. Range Manage. 43:104-108.
- Ramsey, F. L., M. McCracken, J. A. Crawford, M. S. Drut, W. J. Ripple. 1994. Habitat association studies of the northern spotted owl, sage grouse, and flammulated owl. Pages 189-209 IN N. Lange, [et al.]. CASE STUDIES IN BIOMETRY. John Wiley & Sons. New York, NY. 496 pages.
- Rands, M. R. 1982. The influence of habitat on population ecology of partridge. Ph.D. Diss., Univ. Oxford. 350 pages.
- Ransom, B. H. 1909. The Taeniod cestodes of North American birds. U.S. Natl. Mus. Bull. 69. 141 pages.
- Rasmussen, D. I. and L. A. Griner. 1938. Life history and management studies of the sage grouse in Utah, with special reference to nesting and feeding habits. Trans. North Amer. Wildl. Conf. 3: 852-864.
- Rasmussen, D. I. and L. A. Griner. 1938. Life history and management studies of the sage grouse in Utah, with special reference to nesting and feeding habits. Trans. North Amer. Wildl. Conf. 3: 852-864.
- Rasmussen, G. A. 1994. Prescribed burning considerations in sagebrush annual grassland communities. Pages 69-70 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA - Forest Service, Intermountain Res. Stn. Ogden, UT.
- Ratsirarson, J., J. Silander, A. Richard. 1996. Conservation and management of a threatened Madagascar palm species, *neodypsis decaryi*, jumelle. Cons. Biol. 10: 40-52.
- Ratti, J. T., D. L. Mackey, J. R. Alldredge. 1984. Analysis of spruce grouse habitat in north-central Washington. J. Wildl. Manage. 48: 1188-1196.
- Raunkiaer, C. 1934. THE LIFE FORMS OF PLANTS AND STATISTICAL PLANT GEOGRAPHY. Clarendon Press. Oxford, England. 632 pages.
- Raup, H. M. 1964. Some problems in ecological theory and their relation to conservation. Pages 19-28 IN A. Macfadyen and P. J. Newbould (eds.). Jubilee Symp. Suppl. to J. Ecol. and J. Animal Ecol. Blackwell Sci. Publ. Oxford, England.
- Rauzi, F. and F. M. Smith. 1973. Infiltration rates: three soils and three grazing levels in northeastern Colorado. J. Range Manage. 26: 126-129.

- Rayner, J. M. V. 1982. Avian flight energetics. Ann. Rev. Physiol. 44: 109-119.
- Redfield, J. A. 1975. Comparative demography of increasing and stable populations of blue grouse (*Dendragapus obscurus*). Can. J. Zool. 53: 1-11.
- Redmond, G. W., D. M. Kepkie, P. W. Herzog. 1982. Vegetative structure, concealment, and success at nests of two races of spruce grouse. Can. J. Zool. 60: 670-675.
- Reed, C. A. 1904. NORTH AMERICAN BIRDS EGGS. Doubleday, Page & Co. New York, NY.
- Reed, J. M., P. D. Doerr, J. R. Walters. 1986. Determining minimum population sizes for birds and mammals. Wildl. Soc. Bull. 14: 255-261.
- Reed, M. J. and R. A. Peterson. 1961. Vegetation, soil, and cattle responses to grazing on northern Great Plains range. Tech. Bull. no. 1252. USDA – Forest Service. 79 pages.
- Rees, E. 1993. Threatened, endangered, and sensitive species affected by livestock production: a preliminary survey of data available in ten western states. Audobon Society of Portland. Portland, OR.
- Rees, E. 1996. Threatened, endangered, and sensitive species affected by livestock production. Pages 154- IN W. D. Edge and S. L. Olsen-Edge (ed.). Proc. Sustaining Rangeland Ecosystems Symp.; Aug. 29-31, 1994; La Grande, OR. Spec. Rep. 953. Blue Mountain Nat. Res. Inst. Oregon State Univ. Corvallis, OR. 213 pages.
- Reese, K. P. and J. W. Connelly. 1997. Translocations of sage grouse *Centrocercus urophasianus* in North America. Wildl. Biol. 3: 235-241.
- Reid, W. V. and K. R. Miller. 1989. KEEPING OPTIONS ALIVE: THE SCIENTIFIC BASIS FOR CONSERVING BIODIVERSITY. World Resources Inst. Washington, DC.
- Reilly, T. Z., C. A. Davis, M. Ortiz, M. J. Wisdom. 1992. Vegetative characteristics of successful and unsuccessful nests of lesser prairie-chickens. J. Wildl. Manage. 56: 383-387.
- Reinecke, K. J. and R. B. Owen. 1980. Food use and nutrition of black ducks nesting in Maine. J. Wildl. Manage. 44: 549-558.
- Reiser, D. W. and T. C. Bjornn. 1979. Influence of forest and rangeland management on anadromous fish habitat in the western United States and Canada: 1. Habitat requirements of anadromous salmonids. Gen. Tech. Rep. PNW-96. USDA – Forest Service.
- Reitsma, L., R. Holmes, T. Sherry. 1990. Effects of removal of red squirrels, *Tamiasciurus hudsonicus* and eastern chipmunks, *Tamias striatus* on nest predation in a northern hardwood forest: an artificial nest experiment. Oikos 57: 375-380.
- Remington, T. E. 1981. Winter nutrition of sage grouse in North Park, Colorado. Trans. West States Sage Grouse Workshop 12: 10-13.
- Remington, T. E. 1983. Food selection, nutrition, and energy reserves of sage grouse during winter, North Park, Colorado. M.S. thesis, Colorado State Univ. Fort Collins, CO.
- Remington, T. E. and C. E. Braun. 1985. Sage grouse food selection in winter, North Park, Colorado. J. Wildl. Manage. 49: 1055-1061.
- Remington, T. E. and C. E. Braun. 1988. Carcass composition and energy reserves of sage grouse during winter. Condor 90: 15-19.
- Remington, T. E. and C. E. Braun. 1991. How surface coal mining affects sage grouse, North Park, Colorado. Proc. Issues and Tech. in the Management of Impacted Western Wildlife. Thorne Ecol. Inst. 5: 128-132.

- Renard, K. G. 1987. Present and future erosion prediction tools for use in pinyon-juniper communities. Pages 505-512 IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Rensel, J. A. and C. M. White. 1988. First description of a hybrid blue X sage grouse. Condor 90(3): 716-717.
- Rett, E. Z. 1946. The sage grouse dance. Santa Barbara Mus. Leaflet 21(4-6): 39-45.
- Reveal, J. L. 1979. Biogeography of the intermountain region: a speculative appraisal. *Mentzelia* 4: 1-87.
- Reynolds, H. W., R. D. Glahot, A. W. Hawley. 1982. Bison. Pages 972-1007 IN J. A. Chapman and G. A. Feldhamer (eds.). *WILD MAMMALS OF NORTH AMERICA--BIOLOGY, MANAGEMENT, AND ECONOMICS*. Johns Hopkins Univ. Press. Baltimore, MD.
- Reynolds, R. V. 1911. Grazing and floods: a study of conditions in the Manti National Forest, Utah. Forest Service Bulletin #91. USDA. Washington, DC.
- Reynolds, T. D. 1979. Response of reptile populations to different land management practices on the Idaho National Engineering Laboratory Site. Great Basin Natur. 39: 255-262.
- Reynolds, T. D. and C. H. Trost. 1980a. The response of native vertebrate populations to crested wheatgrass planting and grazing by sheep. J. Range Manage. 33: 122-125.
- Reynolds, T. D. and C. H. Trost. 1980b. The effect of crested wheatgrass planting on wildlife on the Idaho National Engineering Laboratory site. Pages 665-666 IN G. A. Swanson (tech. coord.). *The Mitigation Symp.: A National Workshop on Mitigating Losses of Fish and Wildlife Habitats*. Gen. Tech. Rep. RM-65. USDA – Forest Service.
- Reynolds, T. D. and C. H. Trost. 1981. Grazing, crested wheatgrass, and bird populations in southeastern Idaho. Northwest Sci. 55: 225-234.
- Reynolds, T. D., J. W. Connelly, D. K. Halford, W. J. Arthur. 1986. Vertebrate fauna of the Idaho National Environmental Research Park. Great Basin Natur. 46: 513-527.
- Rhodes, O. E., R. K. Chesser, M. H. Smith. (eds.). 1996. *POPULATION DYNAMICS IN ECOLOGICAL SPACE AND TIME*. Univ. Chicago Press. Chicago, IL.
- Rice, S. M., F. S. Guthrey, G. S. Spears, [et al.]. 1993. A precipitation-habitat model for Northern Bobwhites on semiarid rangeland. J. Wildl. Manage. 57: 92-102.
- Rich, L. R. and H. G. Reynolds. 1963. Grazing in relation to runoff and erosion on some chaparral watersheds in central Arizona. J. Range Manage. 6: 322-326.
- Rich, T. 1985. Sage grouse population fluctuations: evidence for a 10-year cycle. Tech. Bull. 85-1. USDI-BLM, Idaho State Office. Boise, ID. 22 pages.
- Rich, T. D. 1996. Degradation of shrubsteppe vegetation by cheatgrass invasion and livestock grazing: effect on breeding birds. Columbia Basin Shrubsteppe Symposium; April 23-25, 1996. Spokane, WA. (abstract).
- Richards, D. G. and R. H. Wiley. 1980. Reverberations and amplitude fluctuations in the propagation of sound in a forest: implications for animal communication. Amer. Natur. 115: 381-399.
- Richards, K. 1985. Record of Decision for the San Juan – San Miguel Resource Management Plan and Final Environmental Impact Statement. Bureau of Land Management, Colorado State Office.

- Rickard, W. H. 1970. Ground-dwelling beetles in burned and unburned vegetation. *J. Range Manage.* 23: 293-294.
- Rickard, W. H. 1985. Experimental cattle grazing in a relatively undisturbed shrubsteppe community. *Northwest Sci.* 59: 66-72.
- Rickard, W. H. and C. E. Cushing. 1982. Recovery of streamside woody vegetation after exclusion of livestock grazing. *J. Range Manage.* 35: 360-361.
- Rickard, W. H., W. D. Vresk, J. F. Cline. 1975. The impact of cattle grazing on three perennial grasses in south-central Washington. *J. Range Manage.* 28: 108-112.
- Ricketts, T. H., E. Dinerstein, D. M. Olson, C. J. Loucks, [et al.]. 1999. TERRESTRIAL ECOREGIONS OF NORTH AMERICA: A CONSERVATION ASSESSMENT. World Wildlife Fund. Island Press. Washington, DC. 495 pages.
- Ricklefs, R. E. 1969. An analysis of nesting mortality in birds. *Smithsonian Contributions to Zoology* 9: 1-48.
- Ridgeway, R. and H. Friedman. 1946. The birds of North and Middle America. Part 10. Galliformes. *Smithsonian Inst. Bull.* 50: 1-484.
- Ridgway, R. 1873. The Birds of Colorado. *Bull. Essex Inst.* 5: 174-195.
- Ridgway, R. 1877. UNITED STATES GEOLOGICAL EXPLORATION OF THE FORTIETH PARALLEL PART 3: ORNITHOLOGY. US GPO. Washington, DC.
- Ridgway, R. 1887. A MANUAL OF NORTH AMERICAN BIRDS. J. B. Lippincott Co. Philadelphia, PA. 631 pages.
- Ridgway, R. 1940. THE BIRDS OF NORTH AND MIDDLE AMERICA. J. J. Little and Ives Co. New York, NY.
- Ridgway, R. and H. Friedman. 1946. THE BIRDS OF NORTH AND MIDDLE AMERICA. U.S. National Museum Bull. 50, Part X. US GPO. Washington, DC. 463 pages.
- Rinne, J. N. 1985. Livestock grazing effects on southwestern streams: a complex research problem. Pages 295-300 IN R. R. Johnson, C. D. Ziebell, D. R. Patton, [et al.] (tech. coords.). *Riparian Ecosystems and their Management: Reconciling Conflicting Uses*. Gen. Tech. Rep. RM-120. USDA – Forest Service.
- Ripple, W. J. 1998. GEOGRAPHIC INFORMATION SYSTEMS FOR RESOURCE MANAGEMENT: A COMPENDIUM. Amer. Soc. Photogrammetry and Remote Sensing and Amer. Congr. Surveying and Mapping. Falls Church, VA.
- Ripple, W., D. Johnson, K. Hersey, [et al.]. 1991. Old-growth and mature forests near spotted owl nests in western Oregon. *J. Wildl. Manage.* 55: 316-318.
- Risser, P. G. 1993. Making ecological information practical for resource managers. *Ecol. Applic.* 3: 37-38.
- Ritchie, M. E., M. L. Wolfe, R. Danvir. 1994. Predation of artificial sage grouse nests in treated and untreated sagebrush. *Great Basin Natur.* 54: 122-129.
- Rivers, I. L. 1941. The Mormon cricket as food for birds. *Condor* 43: 65-69.
- Roath, L. R. and W. C. Krueger. 1982. Cattle grazing and influence on a forested range. *J. Range Manage.* 35: 332-338.
- Robbins, C. S., D. Bystrak, P. H. Geissler. 1986. The breeding bird survey: its first fifteen years, 1965-1979. Resource Public. 157. USDI-Fish Wildl. Service. Washington, DC.

- Robbins, C. S., J. R. Sauer, B. G. Peterjohn. 1992. Population trends and management opportunities for neotropical migrants. Pages 17-23 IN D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Robbins, C. T. 1983. WILDLIFE FEEDING AND NUTRITION. Academic Press. New York, NY.
- Robbins, W. G. and D. W. Wolf. 1994. Landscape and the intermontane northwest: an environmental history. Gen. Tech. Rep. PNW-319. USDA – Forest Service. Portland, OR. 32 pages.
- Robbins, C. S., B. Bruun, H. S. Zinn. 1983. FIELD GUIDE TO THE BIRDS OF NORTH AMERICA. Golden Books. Western Publ Co. Racine, WI. 360 pages.
- Robel, R. J., J. N. Briggs, A. D. Dayton, L. C. Hulbert. 1970. Relationship between visual obstruction measurements and weight of grassland vegetation. J. Range Manage. 23: 295-297.
- Roberson, J. A. 1986. Sage grouse-sagebrush relationships: a review. Pages 157-167 IN E. D. McArthur and B. L. Welch (compilers). Proc. Symp. on the Biology of *Artemisia* and *Chrysothamnus*; July 9-13, 1984; Provo, UT. Gen. Tech. Rep. INT-200. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Roberts, T. C. 1990. Cheatgrass management in the 90's. Pages 19-21 IN E. D. McArthur, E. M. Romney, S. D. Smith, P. T. Tueller (compilers). Proc. Symp. on Cheatgrass Invasion, Shrub Die-off, and Other Aspects of Shrub Biology and Management. Gen. Tech. Rep. INT-276. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 416 pages.
- Roberts, T. C. 1994. Resource impacts of cheatgrass and wildfires on public lands and livestock grazing. Pages 167-169 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Robertson, J. H. 1971. Changes on a sagebrush-grass range in Nevada ungrazed for 30 years. J. Range Manage. 24: 397-400.
- Robertson, M. D. 1991. Winter ecology of migratory sage grouse and associated effects of prescribed fire in southeastern Idaho. M.S. thesis, Univ. Idaho. Moscow, ID. 87 pages.
- Robinson, G. R., R. D. Holt, M. S. Gaines, [et al.]. 1992. Diverse and contrasting effects of habitat fragmentation. Science 257(5069): 524-526
- Robinson, H. 1972. BIOGEOGRAPHY. MacDonald and Evans. London, England.
- Robinson, R. T. 1972. Grouse of the Canadian prairies. Animals (London) 14(8): 342-345.
- Robinson, S. K., J. A. Grzybowski, S. I. Rothstein, [et al.]. 1992. Management implications of cowbird parasitism on neotropical migrant songbirds. Pages 93-102 IN D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Rockwell, R. B. 1908. An annotated list of the birds of Mesa County, Colorado. Condor 10: 152-180.
- Rockwell, R. F. and G. F. Barrowclough. 1987. Gene flow and the genetic structure of populations. Pages 223-255 IN F. Cooke (ed.). AVIAN GENETICS. Academic Press. London, England.

- Rocky Mountain Energy. 1980. Washakie Basin sage grouse progress report, December 1980. Broomfield, CO.
- Rodgers, R. D. 1992. A technique for establishing sharp-tailed grouse in unoccupied range. *Wildl. Soc. Bull.* 20: 101-106.
- Rodriguez, R. L. 1988. Sage grouse habitat locations and soil-plant relationships in Strawberry Valley, Utah. M.S. thesis, Brigham Young Univ., Dept. Agronomy and Horticulture. Provo, UT.
- Roelke, M. E., J. S. Martenson, S. J. O'Brien. 1993. The consequences of demographic reduction and genetic depletion in the endangered Florida panther. *Curr. Biol.* 3(6): 340-350.
- Rogers, G. E. 1960. Mapping sage grouse range. Colorado Game and Fish Dept. 4 pages
- Rogers, G. E. 1963. The sage grouse of Colorado. *Colo. Outdoors* 12(3): 22-34.
- Rogers, G. E. 1964. Sage grouse investigations in Colorado. Tech. Publ. No. 16. Colorado Game, Fish and Parks Dept., Game Res. Div. Denver, CO. 132 pages.
- Rogers, G. F. 1982. THEN AND NOW: A PHOTOGRAPHIC HISTORY OF VEGETATION CHANGE IN THE CENTRAL GREAT BASIN DESERT. Univ. Utah Press. Salt Lake City, UT.
- Rogers, G. K. 1966. General information on food and cover requirements of grouse in Colorado. Game Inf. Leaflet No. 39. Colo. Div. Wildl. 4 pages.
- Rohlf, D. J. 1991. Six biological reasons why the endangered species act doesn't work--and what to do about it. *Conserv. Biol.* 5(3): 273-282.
- Rolstad, J., P. Wegge, B. B. Larson. 1988. Spacing and habitat use of Capercaillie during summer. *Can. J. Zool.* 66: 670-679.
- Romanoff, A. L. 1934. Study of artificial incubation of game birds. Cornell Univ. Agr. Exp. Stn. Bull. 616: 1-39.
- Romanoff, A. L. 1960. THE AVIAN EMBRYO. Macmillan Press. New York, NY.
- Romanoff, A. L. 1967. BIOCHEMISTRY OF THE AVIAN EMBRYO. Wiley-Interscience. New York, NY.
- Romanoff, A. L. 1972. PATHOGENESIS OF THE AVIAN EMBRYO. Wiley-Interscience. New York, NY.
- Romanoff, A. L. and A. J. Romanoff. 1949. THE AVIAN EGG. John Wiley & Sons. New York, NY.
- Rongstad, O. J. 1980. Research needs on environmental impacts of snowmobiles IN R. Andrews and P. Nowak. Off-road Vehicle Use: A Management Challenge. USDA-Office of Environmental Quality. Washington, DC.
- Root, T. 1988a. Energy constraints on avian distributions and abundances. *Ecology* 69: 330-339.
- Root, T. 1988b. Environmental factors associated with avian distributional boundaries. *J. Biogeography* 15: 489-505.
- Roseberry, J. L., B. J. Richards, T. P. Hollenhorst. 1994. Assessing the potential impact of conservation reserve program lands on bobwhite habitat using remote sensing, GIS, and habitat modeling. *Photogr. Eng. Rem. Sens.* 60(9): 1139-1143.
- Rosemarin, A. 1988. Ecotoxicology on the upswing--but where are the ecologists? *Ambio* 17: 359-

- Rosenberg, K. V. and M. G. Raphael. 1986. Effects of forest fragmentation on vertebrates in Douglas-fir forests. Pages 263-272 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.) WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Rosentreter, R. 1994. Displacement of rare plants by exotic grasses. Pages 170-175 IN S. B Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Ross, J. C. 1827. Natural History: Zoology. EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS. Arno Press. New York, NY. (reprinted 1974 in Natural Sciences in America).
- Rossi, R. E., D. J. Mulla, A. G. Journel, [et al ]. 1992. Geostatistical tools for modeling and interpreting ecological spatial dependence. *Ecol. Monogr.* 62: 277-314.
- Rostagno, C. M. 1989. Infiltration and sediment production as affected by soil surface conditions in a shrubland of Patagonia, Argentina. *J. Range Manage.* 42: 382-385.
- Rotenberry, J. T. 1980. Dietary relationships among shrubsteppe passerine birds: competition or opportunism in a variable environment. *Ecol. Monogr.* 50: 93-110.
- Rotenberry, J. T. 1986. Habitat relationships of shrubsteppe birds: even "good" models cannot predict the future. Pages 217-221 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.) WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Rotenberry, J. T. 1998. Avian conservation research needs in western shrublands: exotic invaders and the alteration of ecosystem processes. Pages 262-272 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Covelo, CA.
- Rotenberry, J. T. and J. A. Wiens. 1980. Habitat structure, patchiness, and avian communities in North American steppe vegetation: a multivariate analysis. *Ecology* 61: 1228-1250.
- Rotenberry, J. T. and J. A. Wiens. 1980. Temporal variation in habitat structure and shrubsteppe bird dynamics. *Oecologia* 47: 1-9.
- Rotenberry, J. T. and J. A. Wiens. 1991. Weather and reproductive variation in shrubsteppe sparrows: a hierarchical analysis. *Ecology* 72: 1325-1335.
- Rothenmaier, D. 1979. Sage grouse reproductive ecology: breeding season movements, strutting ground attendance and site characteristics, and nesting. M.S. thesis, Univ. Wyoming. Laramie, WY.
- Rothenmeier, D. 1979. Sage grouse reproductive ecology: breeding season movements, strutting ground attendance and site characteristics, and nesting. M. S. thesis, Univ. Wyoming. Laramie, WY.
- Rothwell, R. 1993. Antelope, sage grouse, and neotropical migrants. Pages 396-401 IN D. M. Finch and P. W. Stangel (eds.). Status and Management of Neotropical Migratory Birds. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Roughgarden, J. 1974. Population dynamics in a spatially varying environment: how population size 'tracks' spatial variation in carrying capacity. *Amer. Natur.* 108: 649-664.

- Roughton, R. D. (coord.). 1977. Indices of predator abundance in western United States, 1976. USDI-Fish and Wildlife Service. Denver, CO. 100 pages. (unpublished report).
- Roundy, B. A., E. D. McArthur, J. S. Haley, D. K. Mann (compilers). 1995. Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- Rowan, W. 1948. The ten-year cycle: outstanding problem of Canadian conservation. Univ. Alberta, Dept. Extension. Edmonton, Alberta, Canada. 15 pages
- Rowley, J. S. 1939. Breeding birds of Mono County, California. Condor 41: 247-254.
- Rowley, W. D. 1985. U.S. FOREST SERVICE GRAZING AND RANGELANDS: A HISTORY. Texas A & M Univ. College Station, TX.
- Rudzitis, G. and H. Johansen. 1989. Migration into western wilderness counties: causes and consequences. Western Wildlands, Spring: 19-23.
- Ruediger, W. 1994. Conservation strategies: lynx. Western Forest Carnivore Committee.
- Ruggiero, L. F., G. D. Hayward, J. R. Squires. 1994. Viability analysis in biological evaluations: concepts of population viability analysis, biological population, and ecological scale. Conserv. Biol. 8: 364-372.
- Rummell, R. S. 1951. Some effects of livestock grazing on ponderosa pine forest and range in central Washington. Ecology 32: 594-607.
- Rummell, R. S. 1951. Some effects of livestock grazing on ponderosa pine forest and range in central Washington. Ecol. 32: 594-607.
- Ruppel, G. 1975. BIRD FLIGHT. Van Nostrand Reinhold Co. New York, NY.
- Rush, W. M. 1942. WILDLIFE OF IDAHO. Caxton Printers Ltd. Caldwell, ID. 299 pages.
- Russell, I. C. 1885. Geological history of Lake Lohonton, a quaternary lake of northwestern Nevada. U. S. Geol. Surv. Mon. 11.
- Russell, I. C. 1889. QUARTERNARY HISTORY OF THE MONO VALLEY, CALIFORNIA. U.S. Geological Surv. Washington, DC. (reprinted 1984 by Artemesia Press, Lee Vining, CA).
- Rutman, S. 1997. Dirt is not cheap: livestock grazing and a legacy of accelerated soil erosion on Organ Pipe Cactus National Monument, Arizona. Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments, Nov. 13-15, 1997. Arizona State University College of Law. Tempe, AZ.
- Ryan, M., J. Fox, W. Wilczynski, [et al.]. 1990. Sexual selection for sensory exploitation in the frog *physalaemus pustulosus*. Nature. Lond. 343: 66-67.
- Ryder, O. A. 1986. Species conservation and systematics: the dilemma of subspecies. Trends Ecol. Evol. 1: 9-10.
- Ryder, R. A. 1960. The grouse of Colorado. Colo. Outdoors 9(1): 1-7.
- Ryder, R. A. 1969. A partial bibliography of references on the sage grouse, (*Centrocercus urophasianus*). Proc. West. States Sage Grouse Workshop 6: 48-83.
- Ryder, R. A. 1980. Effects of grazing on bird habitats. Pages 51-66 IN R. M. DeGraff and N. G. Tilghman (eds.). Workshop Proc. Management of Western Forests and Grasslands for Nongame Birds. Gen. Tech. Rep. INT-86. USDA – Forest Service.
- Ryerson, D. K., D. A. Schlough, C. L. Foreman, G. H. Tenpas, J. W. Pendleton. 1977. Effects of snowmobile traffic on several forage species and winter wheat. Agron. J. 69(5): 769-772

- Ryser, F. A. 1985. BIRDS OF THE GREAT BASIN: A NATURAL HISTORY. Univ. Nevada Press. Reno, NV.
- Saab, V. A. and T. D. Rich. 1997. Large-scale Conservation Assessment for Neotropical Migratory Land Birds in the Interior Columbia River Basin. Gen. Tech. Rep. PNW-399. USDA-Forest Service, Pacific Northwest Res. Stn. Portland, OR. 56 pages.
- Saab, V. A., C. E. Bock, T. D. Rich, [et al.]. 1995. Livestock grazing effects in western North America. Pages 311-353 IN T. E. Martin and D. M. Finch (eds.). ECOLOGY AND MANAGEMENT OF NEOTROPICAL MIGRATORY BIRDS. Oxford Univ. Press. New York, NY.
- Saab, V. and C. Groves. 1992. Idaho's migratory landbirds - descriptions, habitats and conservation. Leaflet 10. Idaho Dept. Fish and Game.
- Sabatier, P., J. Loomis, C. McCarthy. 1996. Attitudes and decisions within the Forest Service is there a connection? J. Forestry 94(1): 42-46.
- Saether, B.-E., S. Engen, R. Lande. 1996. Density-dependence and optimal harvesting of fluctuating populations. Oikos 76(1): 40-46.
- Saether, B.-E., S. Engen, R. Lande. 1999. Finite metapopulation models with density-dependent migration and stochastic local dynamics. Proc. Royal Soc. London, Ser. B, 266(1415): 113-118.
- Sage Grouse Conservation Plan. Owyhee County. 1999. Draft 8.
- Sage grouse habitat requirements and development. Wyoming Game and Fish Dept., Habitat Extension Services.
- Sage grouse harvest summary. 1957-1996.
- Sage grouse lek data – Big Desert. 1999.
- Sage grouse status review. 1999. (confidential attorney work product).
- Sage Grouse Status. 1999. Western States Sage Grouse Technical Committee. Reno, NV.
- Salt, W. R. 1958. *Sarcocystis rileyi* in sage grouse. J. Parasit. 44: 511.
- Salwasser, H. 1991. New perspectives for sustaining diversity in U. S. national forest ecosystems. Conserv. Biol. 5: 567-569.
- Salwasser, H. 1992. From new perspectives to ecosystem management: response to Frissell et al. and Lawrence and Murphy. Conserv. Biol. 6: 469-472.
- Salwasser, H. A. 1991. Roles and approaches of the USDA Forest Service. Pages 54-65 IN W. E. Hudson (ed.). LANDSCAPE LINKAGES AND BIODIVERSITY. Defenders of Wildlife. Island Press. Washington, DC. 194 pages.
- Sampson, A. W. 1924. NATIVE AMERICAN FORAGE PLANTS. John Wiley & Sons. New York, NY.
- Sampson, A. W. and L. H. Weyl. 1918. Range preservation and its relation to erosion control on western grazing lands. USDA Bull. No. 657. 35 pages.
- Samson, F. B. and F. L. Knopf. 1994. Prairie conservation in North America. BioScience 44: 418-421.
- Samson, F. B. and F. L. Knopf. 1996. PRAIRIE CONSERVATION: PRESERVING NORTH AMERICA'S MOST ENDANGERED ECOSYSTEM. Island Press. Washington, DC.
- San Juan Draft Concept Plan. 1997. Draft Concept Plan, San Juan County – Gunnison Sage Grouse Conservation Agreement – Workgroup Planning Document. Dated: Sept. 20, 1997. <http://www.gis.usu.edu/~lema/gungrouse/draft.html>

- Sanders K. D. and A. S. Voth. 1983. Ecological Changes of Grazed and Ungrazed Plant Communities. Gen. Tech. Rep. INT-157. USDA – Forest Service.
- Sanderson, J. G. and L. D. Harris. 1999. LANDSCAPE ECOLOGY – A TOP DOWN APPROACH. Lewis Publishers. Boca Raton, FL.
- Sapsis, D. B. and J. B. Kauffman. 1991. Fuel consumption and fire behavior associated with prescribed fires in sagebrush ecosystems. Northwest Sci. 65: 173-179.
- SAS Institute, Inc. 1985. SAS/STAT guide for personal computers. SAS Inst. Cary, NC.
- SAS Institute, Inc. 1988. SAS/STAT user's guide release 6.03 ed. SAS Inst. Cary, NC.
- SAS Institute, Inc. 1989. SAS/STAT User's Guide. Version 6, Vols. 1 and 2. 4<sup>th</sup> ed. SAS Inst. Cary, NC. 795 pages.
- Sauer, J. R. and S. Droege (eds.). 1990. Survey designs and statistical methods for the estimation of avian population trends. Biol. Rept. 90(1). USDI – Fish and Wildl. Service. Washington, DC.
- Sauer, J. R., B. B. Peterjohn, W. A. Link. 1994. Observer differences in the North American Breeding Bird Survey. Auk 111: 50-62.
- Saunders, A. A. 1912. Some birds of southwestern Montana. Condor 14: 22-32.
- Saunders, A. A. 1921. A distributional list of the birds of Montana. Pacific Coast Avifauna No. 14. Cooper Ornithol. Club. Berkeley, CA. 194 pages.
- Saunders, D. A., R. J. Hobbs, C. R. Margules. 1991. Biological consequences of ecosystem fragmentation: a review. Conserv. Biol. 5(1): 18-32.
- Savage, D. E. 1968. The relationship of sage grouse to upland meadows in Nevada. M.S. thesis, Univ. Nevada. Reno, NV.
- Savage, D. E. 1969. The relationship of sage grouse to upland meadows in Nevada. Nev. Coop. Wildl. Res. Nev. Fish and Game Comm. Nev. Agr. Exp. Stn. Reno, NV.
- Savage, D. E. 1969a. The relationship of sage grouse to upland meadows in Nevada. Nevada Coop. Wildl. Res., Nev. Fish and Game Comm and Nev. Agric. Exp. Stn. Reno, NV.
- Savage, D. E. 1969b. The relationship of sage grouse to upland meadows in Nevada. Proc. West. States Sage Grouse Workshop 6: 134-141.
- Savage, D. E. 1969c. The relationship of sage grouse to upland meadows in Nevada. Trans. Ann. Meeting. The Wildl. Soc., Calif.-Nev. Section 16: 8-17.
- Savory, A. 1978. A holistic approach to range management using short duration grazing. Proc. First Intl. Rangeland Congr.: 555-557.
- Savory, A. 1999. HOLISTIC MANAGEMENT: A NEW FRAMEWORK FOR DECISION MAKING. 2<sup>nd</sup> ed. Island Press. Washington, DC.
- Savory, A. and S. D. Parsons. 1980. The Savory grazing method. Rangelands 2: 234-237.
- Schauber, E. M., W. D. Edge, J. O. Wolff. 1996. Insecticide effects on small mammals: influence of vegetation structure and diet. Ecol. Appl. 7(1): 143-157.
- Schepers, J. S. and D. D. Francis. 1982. Chemical water quality of runoff from grazing land in Nebraska: I. Influence of grazing livestock. J. Environ. Qual. 11: 351-354.
- Schepers, J. S., B. L. Hackes, D. D. Francis. 1982. Chemical water quality of runoff from grazing land in Nebraska: II. Contributing factors. J. Environ. Qual. 11: 355-359.
- Schieck, J. O. and S. J. Hannon. 1989. Breeding site fidelity in willow ptarmigan: the influence of previous reproductive success and familiarity with partner and territory. Oecologia 81: 465-472.

- Schladweiler, P. 1973. Breeding season movements and habitat use of male sage grouse in central Montana. Proc. West. States Sage Grouse Workshop 8: 37-38.
- Schlatterer, E. F. 1960. Productivity and movements of a population of sage grouse in southwestern Idaho. M.S. thesis, Univ. Idaho. Moscow, ID.
- Schlebecker, J. 1963. CATTLE RAISING ON THE PLAINS, 1900-1961. Univ. Nebraska Press. Lincoln, NE.
- Schlesinger, W. H. [et al.]. 1990. Biological feedbacks in global desertification. Science 247: 1043-1048.
- Schmidt, L. J. 1987. Present and future themes in pinyon-juniper technology. Pages 474-489 IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA - Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Schmutz, E. M. and D. A. Smith. 1976. Successional classification of plants on a desert grassland site in Arizona. J. Range Manage. 29: 476-479
- Schmutz, E. M., C. C. Michaels, I. Judd. 1967. Boysag Point - a relict area of the north rim of Grand Canyon in Arizona. J. Range Manage. 20: 363-369.
- Schneegas, E. R. 1967. Sage grouse and sagebrush control. Trans. North Amer. Wildl. Conf. 32: 270-274.
- Schneider, J. W. and C. E. Braun. 1991. Movements and habitat use by sage grouse, Eagle County, Colorado. Unpublished report, Colo. Div. Wildlife. 41 pages.
- Schneider, S. H. 1994. Detecting climatic change signals: are there any "fingerprints?" Science 263: 341-347.
- Schoenberg, T. J. 1982. Sage grouse movements and habitat selection in North Park, Colorado. M.S. thesis, Colorado State Univ. Fort Collins, CO. 86 pages.
- Schoenberg, T. J. and C. E. Braun. 1980. Spring habitat use by male and female sage grouse. J. Colo.-Wyo. Acad. Sci. 12(1): 43-44. [Abstract].
- Schranck, B. W. 1972. Waterfowl nest cover and some predation relationships. J. Wildl. Manage. 36: 182-186.
- Schroeder, M. A. 1994. Movement and habitat use of sage grouse in a fragmented landscape. Sixty-Seventh Annual Meeting of the Northwest Scientific Assoc., Mar. 23-26, 1994, Ellensburg, WA. (World Meeting No. 941 5015). Paper No. 150. Washington State Univ. Press. Pullman, WA.
- Schroeder, M. A. 1994. Productivity and habitat use of sage grouse in north-central Washington. Prog. Rep. Wash. Dept. Fish and Wildlife. Olympia, WA.
- Schroeder, M. A. 1997a. Do sage grouse *Centrocercus urophasianus* exhibit metapopulations in northcentral Washington, USA? Wildl. Biol. 3: 269-.
- Schroeder, M. A. 1997b. Unusually high reproductive effort by sage grouse in a fragmented habitat in north-central Washington. Condor 99(4): 933-941.
- Schroeder, M. A. 1998a. Habitat suitability index procedures for western sage grouse in Washington. Wash. Dept. of Fish and Wildl.
- Schroeder, M. A. 1998b. Minimum viable populations for sage grouse in Washington. Wash. Dept. of Fish and Wildl.
- Schroeder, M. A. 1998c. Distribution and status of sage grouse in Washington. Unpublished Rept. Washington Dept. of Fish and Wildlife. Bridgeport, WA.

- Schroeder, M. A. and C. E. Braun. 1991. Walk-in traps for capturing greater prairie-chickens on leks. *J. Field Ornithol.* 62: 378-385.
- Schroeder, M. A. and C. E. Braun. 1993. Partial migration in a population of greater prairie chickens in northeastern Colorado. *Auk* 110: 21-28.
- Schroeder, M. A., D. W. Hays, M. Livingston. 1998. Distribution and status of sage grouse in Washington. Wash. Dept. of Fish and Wildlife.
- Schultz, R. L. [et al.]. 1971. Range conditions on the Organ Pipe National Monument. USDI-BLM. 24 pages.
- Schulz, T. T. and W. C. Leininger. 1990. Differences in riparian vegetation structure between grazed areas and exclosures. *J. Range Manage.* 43: 295-299.
- Schulz, T. T. and W. C. Leininger. 1991. Nongame wildlife communities in grazed and ungrazed riparian sites. *Great Basin Natur.* 51: 286-292.
- Schuman, G. E., D. T. Booth, J. R. Cockrell. 1998. Cultural methods for establishing Wyoming big sagebrush on mined lands. *J. Range Manage.* 51: 223-230.
- Schwan, H. E. 1949. Influence of grazing and mulch on forage growth. *J. Range Manage.* 2: 142-148.
- Schwartz, C. W. 1950. Saga of the sage. *Natural History* 59: 369-373.
- Schwartz, M. W. (ed.). 1998. CONSERVATION IN HIGHLY FRAGMENTED LANDSCAPES. Chapman & Hall. New York, NY.
- Sclater, W. L. 1912. A HISTORY OF THE BIRDS OF COLORADO. Witherby and Co. London, England. 576 pages.
- Scott, J. M., [et al.]. 1999. Regional approaches to managing and conserving biodiversity. Pages 55-70 *IN* R. K. Baydack, Henry Campa, J. B. Haufler (eds.). PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.
- Scott, J. M., [et al.]. 1999. Regional approaches to managing and conserving biodiversity. Pages 55-70 *IN* R. K. Baydack, Henry Campa, J. B. Haufler (eds.). PRACTICAL APPROACHES TO THE CONSERVATION OF BIOLOGICAL DIVERSITY. Island Press. Washington, DC. 313 pages.
- Scott, J. M., B. Csuti, F. Davis. 1991. Gap analysis: an application of geographic information systems for wildlife species. Pages 157-159 *IN* D. J. Decker, M. E. Krasney, G. R. Goff, C. R. Smith, D. W. Gross (eds.). CHALLENGES IN THE CONSERVATION OF BIOLOGICAL RESOURCES: A PRACTITIONER'S GUIDE.
- Scott, J. M., B. Csuti, J. D. Jacobi, J. E. Estes. 1987. Species richness: a geographic approach to protecting future biological diversity. *BioScience*. 37(11): 782-788.
- Scott, J. M., B. Csuti, J. E. Estes, [et al.]. 1989. Status assessment of biodiversity protection. *Conserv. Biol.* 3(1): 85-87.
- Scott, J. M., B. Csuti, S. Caicco. 1991. Gap analysis: assessing protection needs. Pages 15-26 *IN* W. E. Hudson (ed.). LANDSCAPE LINKAGES AND BIODIVERSITY. Defenders of Wildlife. Island Press. Washington, DC. 194 pages.
- Scott, J. M., F. Davis, B. Csuti, R. Noss, B. Butterfield, [et al.]. 1993. Gap analysis: a geographic approach to protection of biological diversity. *Wildl. Monogr.* 123. 41 pages.
- Scott, J. P. 1972. ANIMAL BEHAVIOR. Univ. Chicago Press. Chicago, IL. 349 pages.

- Scott, J. W. 1940. The role of coccidia as parasites in wildlife. *J. Colo.-Wyo. Acad. Sci.* 2(6): 45
- Scott, J. W. 1941. Behavior of the sage grouse during the mating cycle. *Bull. Ecol. Soc. Amer.* 22(4): 38.
- Scott, J. W. 1942. Mating behavior of the sage grouse. *Auk* 59: 477-498.
- Scott, J. W. 1944. A study of the comparative behavior of three species of grouse. *J. Colo.-Wyo. Acad. Sci.* 4(1): 58-59. (abstract)
- Scott, J. W. 1949. A study of the comparative behavior of three species of grouse. Studies of the sharp-tailed grouse and greater prairie chicken. *J. Colo.-Wyo. Acad. Sci.* 4: 58-59.
- Scott, J. W. 1950a. A study of the phylogenetic or comparative behavior of three species of grouse. *Ann. N.Y. Acad. Sci.* 51: 1062-1073.
- Scott, J. W. 1950b. Additional observations on the sage grouse. *Anat. Rec. (Philadelphia)* 108: 552. (abstract).
- Scott, J. W. and R. F. Honess. 1933. On a serious outbreak of coccidiosis among sage chickens. *J. Colo.-Wyo. Acad. Sci.* 1(5): 87-88. (abstract).
- Scott, J. W. and R. F. Honess. 1937. A further investigation of coccidia in the sage hen. *J. Colo.-Wyo. Acad. Sci.* 2(2): 48. (abstract).
- Scott, M. D. and G. M. Zimmerman. 1984. Wildlife management at surface coal mines in the northwest. *Wildl. Soc. Bull.* 12: 364-370.
- Scott, W. E. D. 1879. Notes on birds observed at Twin Lakes, Lake County, Colorado. *Bull. Nuttall Ornithol. Club* 4: 90-96.
- Scutro, A. 1999. The last dance of the sage grouse. Is southern Idaho's vanishing icon the next spotted owl? *Boise Weekly* 7(32).
- Sedgwick, J. A. and F. L. Knopf. 1987. Breeding bird response to cattle grazing of a cottonwood bottomland. *J. Wildl. Manage.* 51: 230-237.
- Sedgwick, J. A. and F. L. Knopf. 1991. Prescribed grazing as a secondary impact in a western riparian floodplain. *J. Range Manage.* 44: 369-373.
- Seigel, D. G. and S. W. Greenhouse. 1973. Multiple relative risk functions in case-control studies. *Amer. J. Epidemiology* 97: 324-431.
- Selander, R. K. 1965. Avian speciation in the Quaternary. Pages 527-542 IN H. E. Wright and D. G. Frey (eds.). *THE QUATERNARY OF THE UNITED STATES, PART II: BIOGEOGRAPHY*. Princeton Univ. Press. Princeton, NJ.
- Settele, J. 1996. Species survival in fragmented landscapes. Kluwer Academic. London, England.
- Severighaus, C. W. and B. F. Tullar. 1975. Wintering deer versus snowmobiles. *Conservationist* 29(6): 31.
- Sexton, V. L. 1936. Oregon's wildlife resource. Oregon State Planning Board Rep. 102 pages.
- Shaffer, M. L. 1981. Minimum population size for species conservation. *BioScience* 31: 131-34.
- Shaffer, M. L. 1987. Minimum viable populations: coping with uncertainty. Pages 69-86 IN M. E. Soulé (ed.) *VIABLE POPULATIONS FOR CONSERVATION*. Cambridge Univ. Press. New York, NY.
- Shaffer, M. L. 1990. Population viability analysis. *Conserv. Biol.* 4: 39-40.

- Shaffer, M. L. and F. B. Samson. 1985. Population size and extinction: a note on determining critical population size. *Amer. Natur.* 125: 144-152.
- Sharp, A. L. [et al.]. 1964. Runoff as affected by intensity of grazing rangeland. *J. Soil Water Conserv.* 19: 103-106.
- Sharrow, S. and D. Tober. 1979. A simple, lightweight point frame. *J. Range Manage.* 32: 75-76.
- Shaw, N. L. 1992. Recruitment and growth of Pacific willow and sandbar willow seedlings in response to season and intensity of cattle grazing. Pages 130-137 IN W. P. Clary, E. D. McArthur, D. Bedunah, C. L. Wambolt (compilers). *Proc. Symp. Ecology and Management of Riparian Shrub Communities*. Gen. Tech. Rep. INT-289. USDA – Forest Service.
- Shea, S. 1998. Letter to Buddy Green. BLM.
- Sherfy, M. H. and P. J. Pekins. 1994. The influence of season, temperature, and absorptive state on sage grouse metabolism. *Can. J. Zool.* 72(5): 898-903.
- Sherfy, M. H. and P. J. Pekins. 1995. Influence of wind speed on sage grouse metabolism. *Can. J. Zool.* 73(4): 749-754.
- Sheridan, D. 1981. Desertification of the United States. Council on Environmental Quality. US GPO. Washington, DC. 142 pages.
- Sherry, T. W. and R. T. Holmes. 1992. Are populations of neotropical migrant birds limited in summer or winter? Implications for management. Pages 47-57 IN D. M. Finch and P. W. Stangel (eds.). *Status and Management of Neotropical Migratory Birds*. Gen. Tech. Rep. RM-229. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Fort Collins, CO. 442 pages.
- Shields, W. M. 1982. *PHILOPATRY, INBREEDING AND THE EVOLUTION OF SEX*. State Univ. New York Press. Albany, NY.
- Shiflet, T. N. (ed.) 1994. *RANGELAND COVER TYPES OF THE UNITED STATES*. Society for Range Management. Denver, CO. 152 pages.
- Shillinger, J. E. and D. R. Coburn. 1940. Diseases of game birds. *Vet. Med.* 85: 124-127.
- Short Communications. 1991. *Wilson Bull.* 103(2): 255-261.
- Short, L. L. 1967. A review of the genera of grouse. *Amer. Mus. Novitates No. 2289*. 39 pages.
- Shrader-Frechette, K. S. and E. D. McCoy. 1994. Biodiversity, biological uncertainty, and setting conservation priorities. *Biol. Philos.* 9: 167-195.
- Shrub-steppe at risk, an obligates worst nightmare. 1998. (unpublished manuscript)
- Shufelt, R. W. 1881. Osteology of the North American Tetraonidae. *U.S. Geol. Surv. Bull* 6(1): 309-350.
- Sibley, C. G. 1957. The evolutionary and taxonomic significance of sexual dimorphism and hybridization in birds. *Condor* 59: 166-191.
- Sibley, C. G. and B. L. Monroe. 1990. *DISTRIBUTION AND TAXONOMY OF BIRDS OF THE WORLD*. Yale Univ. Press. New Haven, CT.
- Sibley, C. G. and B. L. Monroe. 1993. *A SUPPLEMENT TO DISTRIBUTION AND TAXONOMY OF BIRDS OF THE WORLD*. Yale Univ. Press. New Haven, CT.
- Sibley, C. G. and J. E. Ahlquist. 1990. *PHYLOGENY AND CLASSIFICATION OF BIRDS*. Yale Univ. Press. New Haven, CT.

- Sibley, C. G. and J. E. Ahlquist. 1991. Phylogeny and Classification of Birds, A Study in Molecular Evolution.
- Sibly, R. M. and R. H. Smith. 1985. BEHAVIOURAL ECOLOGY: ECOLOGICAL CONSEQUENCES OF ADAPTIVE BEHAVIOUR. Blackwell Scientific Publ. Boston, MA.
- Sierra Nevada Ecosystem Project. 1997. Rangelands. Pages 114-122 IN SIERRA NEVADA ECOSYSTEM PROJECT FINAL REPORT TO CONGRESS: STATUS OF THE SIERRA NEVADA ADDENDUM. Centers for Water and Wildland Resources, Report No. 40. Univ. California. Davis, CA.
- Silvertown, J., M. Franco, E. Menges. 1996. Interpretation of elasticity matrices as an aid to the management of plant populations for conservation. Conserv. Biol. 10: 591-597
- Simberloff, D. 1988. The contribution of population and community biology to conservation science. Ann. Rev. Ecol. Syst. 19: 473-511
- Simberloff, D. 1995. Habitat fragmentation and population extinction of birds. Ibis 137: S105-S111.
- Simberloff, D. and J. Cox. 1987. Consequences and costs of conservation corridors. Conserv. Biol. 1: 62-71.
- Simberloff, D. and L. G. Abele. 1982. Refuge design and island biogeographic theory: effects of fragmentation. Amer. Natur. 120: 41-50.
- Simberloff, D. S. 1974. Equilibrium theory of island biogeography and ecology. Ann. Rev. Ecol. Syst. 5: 161-182.
- Simberloff, D. S. and L. G. Abele. 1976. Island biogeography theory and conservation practice. Science 191: 285-286.
- Simberloff, D., J. A. Farr, J. Cox, D. W. Mehlan. 1992. Movement corridors: conservation bargains or poor investments? Conserv. Biol. 6(4): 493-504.
- Sime, C. A. 1991. Sage grouse use of burned, non-burned, and seeded vegetation communities on the Idaho National Engineering Laboratory, Idaho. M.S. thesis, Montana State Univ. Bozeman, MT. U.S. Dept. Energy. Washington, DC.
- Simms, J. 1997. Some effects of stock tanks on aquatic biodiversity in Arizona Streams. Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments; Nov. 13-15, 1997. Arizona State University College of Law. Tempe, AZ.
- Simon, F. 1937. A new cestode, *Raillietina centrocerci*, from the sage grouse, *Centrocercus urophasianus*. Trans. Amer. Microscop. Soc. 56: 340-343.
- Simon, F. 1939a. *Cheilospirura eentrocerci* a new nematode from the sage grouse *Centrocercus urophasianus*. Trans. Amer. Microscop. Soc. 58: 78-80.
- Simon, F. 1939b. *Eimeria centrocerca* n. sp. du *Centrocercus urophasianus* (cog de bruyere). Ann. Parisitol. Hum. Comp. 17: 137-138.
- Simon, F. 1940. The parasites of the sage grouse, *Centrocercus urophasianus*. Univ. Wyoming Publ. vol. 7, no. 5. Univ. Wyoming, Committee on Research. Laramie, WY.
- Simon, J. R. 1940. Mating performance of the sage grouse. Auk 57: 467-471.
- Singer, F. J. 1995. Effects of grazing by ungulates on upland bunchgrass communities of the northern winter range of Yellowstone National Park. Northwest Sci. 69(3): 191-202.
- Singer, F. J. and M. K. Harter. 1996. Comparative effects of elk herbivory and 1988 fires on northern Yellowstone National Park grasslands. Ecol. Applic. 6(1): 185-199.

- Singer, F. J. and R. A. Renkin. 1995. Effects of browsing by native ungulates on the shrubs in big sagebrush communities in Yellowstone National Park. *Great Basin Natur.* 55 (3): 201-212.
- Singer, F. J. and R. G. Cates. 1995. Response to comment: ungulate herbivory on willows on Yellowstone's northern winter range. *J. Range Manage.* 48(6): 563-565.
- Singer, F. J., D. M. Swift, M. B. Coughenour, J. D. Varley. 1998a. Thunder on the Yellowstone revisited: an assessment of management of native ungulates by natural regulation, 1968-1993. *Wildl. Soc. Bull.* 26(3): 375-390.
- Singer, F. J., L. C. Mark, R. C. Cates. 1994. Ungulate herbivory of willows on Yellowstone's northern winter range. *J. Range Manage.* 47: 435-443.
- Singer, F. J., L. C. Zeingenfuss, R. G. Cates, D. T. Barnett. 1998b. Elk, multiple factors, and persistence of willows in national parks. *Wildl. Soc. Bull.* 26(3): 419-428.
- Skalski, J. R. and D. S. Robson. 1992. TECHNIQUES FOR WILDLIFE INVESTIGATIONS: DESIGN AND ANALYSIS OF CAPTURE DATA. Academic Press. San Diego, CA.
- Skinner, C. N. 1995. Change in spatial characteristics of forest openings in the Klamath Mountains of northwestern California, USA. *Landscape Ecol.* 10(4): 219-228.
- Skovlin, J. 1987. Southern Africa's experience with intensive short duration grazing. *Rangelands* 9(4): 162-166.
- Skovlin, J. M. 1984. Impacts of grazing on wetlands and riparian habitat: a review of our knowledge. Pages 1001-1103 IN DEVELOPING STRATEGIES FOR RANGELAND MANAGEMENT. Nat. Research Council. Westview Press. Boulder, CO. 2022 pages.
- Skovlin, J. M., P. J. Edgerton, R. W. Harris. 1968. The influence of cattle management on deer and elk. *Trans. North Amer. Wildl. and Nat. Res. Conf.* 33: 169-181.
- Skovlin, J. M., R. W. Harris, G. S. Strickler, G. A. Garrison. 1976. Effects of cattle grazing methods on ponderosa pine-bunchgrass range in Pacific Northwest. *Tech. Bull.* 1531. USDA-Forest Service, Pacific Northwest Res. Stn. Portland, Oregon.
- Slatkin, M. 1985. Gene flow in natural populations. *Ann. Rev. Ecol. Syst.* 16: 393-430.
- Slatkin, M. 1987. Gene flow and the geographic structure of natural populations. *Science* 236: 787-792.
- Slatkin, M. and D. Charlesworth. 1978. The spatial distribution of transient alleles in a subdivided population: a simulation study. *Genetics* 89: 793-810.
- Slatkin, M. and N. H. Barton. 1989. A comparison of three indirect methods for estimating average levels of gene flow. *Evolution* 43: 1349-1368.
- Slatkin, M. and R. Lande. 1994. Segregation variance after hybridization of isolated populations. *Genetical Res.* 64(1): 51-56.
- Sloss, M. W., R. L. Kemp, A. M. Zajac. 1994. VETERINARY CLINICAL PARASITOLOGY. 6<sup>th</sup> ed. Iowa State Univ. Press. Ames, IA.
- Smallwood, K. S. 1994. Site invasibility by exotic birds and mammals. *Biol. Conserv.* 69: 251-259.
- Smith, A. D. 1961. Competition for forage by game and livestock. *Utah Farm and Home Science* 22: 8-9, 23.
- Smith, D. A. and E. M. Schmutz. 1975. Vegetation changes in protected versus grazed desert grassland ranges in Arizona. *J. Range Manage.* 28: 453-458.

- Smith, D. G. 1976. Effect of vegetation on lateral migration of anastomosed channel of a glacier meltwater river. *Geol. Soc. Amer. Bull.* 87: 857-860.
- Smith, D. W. 1967. Effects of cattle grazing on a ponderosa pine-bunchgrass range in Colorado. *Tech. Bull.* 1371. USDA Washington, DC.
- Smith, J. 1996. Snowmobiles stress wildlife in winter. *Road RIPorter* 10-11.
- Smith, J. G. 1985. Conditions of the Prairie Region. Pages 309-324 *IN* USDA Yearbook of Agriculture: 1985. US GPO. Washington, DC.
- Smith, P. G. R. and J. B. Theberge. 1986. A review of criteria for evaluating natural areas. *Environmental Manage.* 10(6): 715-734.
- Smith, R. B. and J. H. Klott. 1995. Seasonal distribution and habitat use of sage grouse in the Brown's bench area of southcentral Idaho. Idaho Dept. Fish and Game. Jerome, ID (unpubl. Report).
- Smith, R. J. 1977. Conclusions *IN* Proc. of a Seminar on Improving Fish and Wildlife Benefits in Range Management. USDI-Fish and Wildlife Service, Biological Services Program. Washington, DC.
- Smith, S. D., S. C. Bunting, M. Hironaka. 1986. Sensitivity of frequency plots for detecting vegetation change. *Northwest Sci.* 60: 279-286.
- Snedecor, G. and R. Cochran. 1980. *STATISTICAL METHODS*. 7th ed. Iowa State Univ. Press Ames, IA.
- Snedecor, G. and W. Cochran. 1967. *STATISTICAL METHODS*. 6th ed. Iowa State Univ. Press Ames, IA.
- Snedecor, G. W. and R. G. Cochran. 1989. *STATISTICAL METHODS*. 8<sup>th</sup> ed. Iowa State Univ. Press. Ames, IA.
- Sneva, F. A. 1982. Relationship of precipitation and temperature with yield of herbaceous plants in eastern Oregon. *Intl. J. Biometeorology* 27: 263-276.
- Sneva, F. A., L. R. Rittenhouse, P. T. Tueller, P. Reece. 1984. Changes in protected and grazed sagebrush-grass in eastern Oregon, 1937 to 1974. Oregon State Univ., Agric. Exp. Stn. Corvallis, OR.
- Snyder, W. D. 1997. Sandsage-bluestem prairie renovation to benefit prairie grouse. Special report no. 71. Colo. Div. of Wildlife. Denver, CO. 34 pages.
- Soil Conservation Service. 1994. Draft Lake County soil survey. USDA-Soil Conserv. Service. Portland, OR.
- Soil Conservation Service. 1994. Plants of the U.S.—Alphabetical Listing. Washington, DC.
- Sokal, R. and F. Rohlf. 1981. *BIOMETRY*. 2nd ed. W. H. Freeman and Co. San Francisco, CA.
- Sokal, R. R. and F. J. Rohlf. 1995. *BIOMETRY*. 3<sup>rd</sup> ed. W. H. Freeman and Co. San Francisco, CA. 859 pages.
- Souder, J. A. 1997. How does livestock grazing fit into the larger societal uses of wildlands? Symposium on Environmental, Economic, and Legal Issues Related to Rangeland Water Developments; Nov. 13-15, 1997. Arizona State University College of Law. Tempe, AZ.
- Souder, J. A. 1997. Valuing resources and uses in the central winter ecosystem management area, North Kaibab Ranger District. A report prepared for the Kaibab National Forest. Fredonia, AZ.

- Soulé, M. 1973. The epistasis cycle: a theory of marginal populations. *Ann. Rev. Ecol. Syst.* 4: 165-187.
- Soulé, M. E. 1980. Thresholds for survival: maintaining fitness and evolutionary potential. Pages 151-169 IN M. E. Soulé and B. A. Wilcox (eds.). *CONSERVATION BIOLOGY: AN EVOLUTIONARY-ECOLOGICAL PERSPECTIVE*. Sinauer Assoc. Sunderland, MA.
- Soulé, M. E. 1990. The onslaught of alien species, and other challenges in the coming decades. *Conserv. Biol.* 4(3): 233-239.
- Soule, M. E. 1991. Conservation: tactics for a constant crisis. *Science* 253(5021): 744-750.
- Soule, M. E. 1991. Theory and strategy. Pages 91-104 IN W. E. Hudson (ed.). *LANDSCAPE LINKAGES AND BIODIVERSITY*. Defenders of Wildlife. Island Press. Washington, DC. 194 pages.
- Soulé, M. E. (ed.). 1986. *CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY*. Sinauer Assoc. Sunderland, MA.
- Soulé, M. E. (ed.). 1987. *VIABLE POPULATIONS FOR CONSERVATION*. Cambridge Univ. Press. New York, NY.
- Soulé, M. E. and B. A. Wilcox (eds.). 1980. *CONSERVATION BIOLOGY: AN EVOLUTIONARY-ECOLOGICAL PERSPECTIVE*. Sinauer Assoc. Sunderland, MA.
- Soulé, M. E. and D. Simberloff. 1986. What do genetics and ecology tell us about the design of nature reserves? *Biol. Conserv.* 35: 19-40.
- Soule, M. E. and L. S. Mills. 1998. Population genetics – no need to isolate genetics. *Science* 282(5394): 1658-1659.
- Soulé, M. E. and M. A. Sanjayan. 1998. Conservation targets: do they help? *Science* 279(5359): 2060-2061.
- Soulé, M. E., A. C. Alberts, D. T. Bolger. 1992. The responses of animals and plants to habitat fragmentation in coastal southern California. *Oikos* 63: 39-47.
- Soulé, M. E., D. T. Bolger, A. C. Alberts, [et al.]. 1988. Reconstructed dynamics of rapid extinctions of chaparral-requiring birds in urban habitat islands. *Conserv. Biol.* 2: 75-92.
- Sparks, S. R., N. E. West, E. B. Allen. 1990. Changes in vegetation and land use at two townships in Skull Valley, western Utah. Pages 26-36 IN E. D. McArthur, E. M. Romney, S. D. Smith, P. T. Tueller (compilers). *Proc. Symp. on Cheatgrass Invasion, Shrub Die-off, and Other Aspects of Shrub Biology and Management*. Gen. Tech. Rep. INT-276. USDA – Forest Service; Intermountain Res. Stn. Ogden, UT. 416 pages.
- Spellerberg, I. F. (ed.). 1996. *CONSERVATION BIOLOGY*. Longman Press. Harlow, England.
- Spurrier, M. F. 1989. Courtship behavior in *Centrocercus urophasianus*. M.S. thesis, Univ. Wyoming. Laramie, WY.
- Spurrier, M. F., M. S. Boyce, B. F. J. Manly. 1991. Effects of parasites on mate choice by captive sage grouse. Pages 389-398 IN J. E. Lioy and M. Zuk. *BIRD-PARASITE INTERACTIONS: ECOLOGY, EVOLUTION, AND BEHAVIOUR*. Oxford Univ. Press. New York, NY. 406 pages.
- Spurrier, M. F., M. S. Boyce, B. F. J. Manly. 1994. Lek behaviour in captive sage grouse *Centrocercus urophasianus*. *Animal Behav.* 47: 303-310.
- Squires, J. R., G. D. Hayward, J. F. Gore. 1998. The role of sensitive species in avian conservation. Pages 155-176 IN J. M. Marzluff and R. Sallabanks (eds.). *AVIAN CONSERVATION: RESEARCH AND MANAGEMENT*. Island Press. Washington, DC.

- St. Clair, L. L. and J. R. Johansen. 1993. Introduction to the symposium on soil crust communities. *Great Basin Natur.* 53: 1-4.
- St. Clair, L. L., B. L. Webb, J. R. Johansen, G. T. Nebecker. 1984. Cryptogamic soil crusts: enhancement of seedling establishment in disturbed and undisturbed areas. *Reclamation and Vegetation Res.* 3: 129-136.
- St. Clair, L. L., J. R. Johansen, S. R. Rushforth. 1993. Lichens of soil crust communities in the Intermountain areas of the western United States. *Great Basin Natur.* 53: 5-12.
- Stabler, D. F. 1985. Increasing summer flow in small streams through management of riparian areas and adjacent vegetation: a synthesis. Gen. Tech. Rep. RM-120. USDA--Forest Service, Rocky Mountain Forest and Range Exp. Stat. Fort Collins, CO.
- Stabler, R. M., C. E. Braun, T. D. I. Beck. 1977. Hematozoa in sage grouse from Colorado. *J. Wildl. Diseases* 13: 414-417.
- Stabler, R. M., N. J. Kitzmiller, C. E. Braun. 1974. Hematozoa from Colorado birds. IV. Galliformes. *J. Parasit.* 60: 536-537.
- Stabler, R. M., N. J. Kitzmiller, C. E. Braun. 1981. Redescription of *Eimeria centrocerici* from sage grouse (*Centrocercus urophasianus*). *Trans. Amer. Microsc. Soc.* 100(1): 86-89.
- Stabler, R. M., P. A. Holt, N. J. Kitzmiller. 1966. *Trypanosoma avium* in the blood and bone marrow from 677 Colorado birds. *J. Parasit.* 52: 1141-1144.
- Stacey, P. B. 1995. Diversity of rangeland bird populations. Pages 33-41 IN N. E. West (ed.). BIODIVERSITY ON RANGELANDS. Utah State Univ. Logan, UT.
- Stacey, P. B. and M. Taper. 1992. Environmental variation and the persistence of small populations. *Ecol. Applic.* 2: 18-29.
- Stacey, P. B., V. A. Johnson, M. L. Taper. 1997. Migration within metapopulations: the impact upon local population dynamics. Pages 267-291 IN I. Hanski and M. Gilpin (eds.). METAPOPULATION BIOLOGY: ECOLOGY, GENETICS, AND EVOLUTION. Academic Press New York, NY.
- Stafford, M. P. 1983. Surface-dwelling Coleoptera inhabiting sagebrush in southeastern Idaho. M.S. thesis, Univ. Idaho. Moscow, ID.
- Stamps, J. A. and K. Tollestrup. 1984. Prospective resource defense in a territorial species *Amer. Natur.* 123: 99-114.
- Stamps, J. A. and V. V. Krishnan. 1990. The effect of settlement tactics on territory size. *Amer. Natur.* 135: 527-546.
- Stamps, J. A., M. Buescher, V. V. Krishnan. 1987. The effects of edge permeability and habitat geometry on emigration from patches of habitat. *Amer. Natur.* 129: 533-552.
- Standards for rangeland health and guidelines for livestock grazing management for public lands administered by the BLM in the states of Oregon and Washington. 1997.
- Stanton, D. C. 1958. A study of breeding and reproduction in a sage grouse population in southeastern Idaho. M.S. thesis, Univ. Idaho. Moscow, ID. 87 pages.
- Star, J. and J. Estes. 1990. GEOGRAPHIC INFORMATION SYSTEMS: AN INTRODUCTION. Prentice Hall. Englewood Cliffs, NJ.
- Starck, J. M. and R. E. Ricklefs (eds.). 1998. AVIAN GROWTH AND DEVELOPMENT. Oxford Univ. Press. New York, NY.
- Starker, L. A. 1981. NORTH AMERICAN GAME BIRDS AND MAMMALS. Scribner. New York, NY.

- Starkey, E. E. 1985. Impact of fire on nongame wildlife IN K. Sanders, J. Durham, [et al.] (eds.). Proc. Rangeland Fire Effects: A Symposium; Nov. 27-29, 1984; Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- State of Montana. 1996-97. Upland game birds and falconry. Hunting regulations. (tentative).
- Stearns, S. C. 1981. On measuring fluctuating environments: predictability, constancy, and contingency. *Ecology* 62: 185-199.
- Stebbins, G. L. 1981. Coevolution of grasses and herbivores. *Ann. Missouri Bot. Garden* 68: 75-86.
- Steel, R. and J. Torrie. 1980. PRINCIPLES AND PROCEDURES OF STATISTICS. 2nd ed. McGraw-Hill Book Co. New York, NY.
- Steel, R. G. D. and J. H. Torrie. 1997. PRINCIPLES AND PROCEDURES OF STATISTICS: A BIOMETRICAL APPROACH. 3<sup>rd</sup> ed. McGraw-Hill Book Co. New York, NY. 666 pages
- Steenhof, K. 1982. Use of an automated geographic information system by the Snake River Birds of Prey Research Project. *Computers Envt. Urban Systems* 7: 245-251.
- Steidl, R. J., J. P. Hayes, E. Schaub. Statistical power analysis in wildlife research. *J. Wildl. Manage.* 61: 270-279.
- Steinhart, P. 1990. California's wild heritage: threatened and endangered animals in the Golden State. California Dept. Fish and Game. Sacramento, CA.
- Stephan, J. G., H. P. Foote, A. J. Stephan, [et al.]. 1996. Remote and field assessment of land cover effects at the Yakima Training Center from the 1996 Washington Army Natl. Guard exercise. PNNL-11412. Pacific Northwest Natl. Lab. Richmond, VA.
- Stephens, M. A. 1974. EDF statistics for goodness of fit and some comparisons. *J. Amer. Stat. Assoc.* 69: 730-737.
- Stephenson, G. R. and A. Veigel. 1987. Recovery of compacted soil on pastures used for winter cattle feeding. *J. Range Manage.* 40: 46-48.
- Stephenson, G. R. and A. Veigel. 1987. Recovery of compacted soil on pastures used for winter cattle feeding. *J. Range Manage.* 40: 46-48.
- Stephenson, G. R. and L. V. Street. 1978. Bacterial variations in streams from a southwest Idaho rangeland watershed. *J. Environ. Qual.* 7: 150-157.
- Stephenson, G. R. and R. C. Rychert. 1982. Bottom sediment: a reservoir of *Escherichia coli* in rangeland streams. *J. Range Manage.* 35: 119-123.
- Stevens, R. and E. D. McArthur. 1974. A simple field technique for identification of some sagebrush taxa. *J. Range Manage.* 27: 325-326.
- Stevens, R., E. D. McArthur, J. N. Davis. 1992. Reevaluation of vegetative cover changes, erosion, and sedimentation on two watersheds, 1912-1983. Pages 123-128 IN W. P. Clary, E. D. McArthur, D. Bedunah, C. L. Wambolt (compilers). Proc. Symp. Ecology and Management of Riparian Shrub Communities. Gen. Tech. Rep. INT-289. USDA - Forest Service.
- Steward, J. S. 1938. Basin-plateau aboriginal sociopolitical groups. Bull. 120. Smithsonian Inst., Bureau of American Ethnology. 346 pages.
- Stewart, G. and A. C. Hull. 1949. Cheatgrass (*Bromus tectorum* L.): an ecological intruder in southern Idaho. *Ecology* 30: 58-74.
- Stewart, R. E. 1975. BREEDING BIRDS OF NORTH DAKOTA. Tri-College Center Environ. Studies. Fargo, ND. 295 pages.

- Stickney, P. F. 1989. Seral origin of species originating in northern Rocky Mountain forests. USDA – Forest Service, Intermountain Res. Stn., Fire Sciences Laboratory. RWU 4403 files. Missoula, MT. 7 pages. (unpublished draft).
- Stiehl, R. B. 1994. Utah single covertype sage grouse model. USDI-Natl. Biol. Survey, Midcontinent Ecol. Sci. Center. Fort Collins, CO.
- Stiehl, R. B. and S. N. Trautwein. 1991. Pesticides and wildlife, a guide to reducing impacts on animals and their habitat. Dept. Game and Inland Fish. Richmond, VA.
- Stiehl, R. B. and S. N. Trautwein. 1991. Variations in diets of nesting common ravens. Wilson Bull. 103: 83-92.
- Stiehm, H. A. 1946. Sage grouse trapping. Colo. Conserv. Comments 9(4): 15.
- Stigar, M. S. 1989. Hunting low density sage grouse populations. M.S. thesis, Univ. Nevada Reno, NV.
- Stiles, M. 1996. Potential sage grouse action groups. 3 page document dated Feb. 15, 1996, with the notation "From Flip Charts" in the upper RH corner. The last two pages may be a different document: the second to last page bears the heading "Internal Working Document" and the date Dec. 1995. Mr. Stiles is listed as a contact person on the last page of this document and may not be the author. All are attached to Braun 1996b and were obtained from the Colorado BLM via Freedom of Information Act requests.
- Stiver, S. 1999. Memorandum. Participants in the Western States Sage & Columbian Sharp-tailed Grouse Technical Comm. Meeting. Nevada Div. of Wildlife. Reno, NV.
- Stockwell, G. A. 1888. Physiological relations of gular vocalization in grouse. J. Comp. Med. 9: 127-135.
- Stoddard, L. A., A. D. Smith, T. W. Box. 1975. RANGE MANAGEMENT. 3rd ed. McGraw-Hill. New York, NY.
- Stoddart, L. 1978. Population dynamics, movements, and home range of black-tailed jackrabbits (*Lepus californicus*) in Curlew Valley, Northern Utah. Final Rept. U.S. Dept. Energy.
- Stoddart, L. A. and A. Smith. 1955. RANGE MANAGEMENT. McGraw-Hill. New York, NY.
- Stoddart, L. A., A. D. Smith, T. W. Box. 1975. RANGE MANAGEMENT. McGraw-Hill Book Co. New York, NY. 532 pages.
- Stohlgren, T. J., K. A. Bull, Y. Otsuki. 1998. Comparison of rangeland vegetation sampling techniques in the central grasslands. J. Range Manage. 51(2): 164-172.
- Stohlgren, T. J., L. D. Schell, B. V. Heuvel. 1999. How grazing and soil quality affect native and exotic plant diversity in Rocky Mountain grasslands. Ecol. Applic. 9(1): 45-64.
- Stohlgren, T. J., M. B. Coughenour, G. W. Chong, D. Binkley, [et al.]. 1997. Landscape analysis of plant diversity. Landscape Ecol. 12: 155-170.
- Storaas, T. and P. Wegge. 1987. Nesting habitats and nest predation in sympatric populations of Capercaille and black grouse. J. Wildl. Manage. 51: 167-172.
- Storch, I. 1997. The role of the metapopulation concept in conservation of European woodland grouse. Wildl. Biol. 3: 272.
- Storm, R. M., W. P. Leonard, H. A. Brown, R. B. Bury, D. M. Darda, L. V. Diller, C. R. Peterson. 1995. REPTILES OF WASHINGTON AND OREGON. Seattle Audubon Society. Seattle, WA.

- Storms, D. M., F. W. Davis, K. L. Driese, K. Cassidy, M. P. Murray. 1998. GAP analysis of the vegetation of the intermountain semi-desert ecoregion. *Great basin Natur.* 58: 99-216.
- Stout, G. G. 1982. Effects of coyote reduction on white-tailed deer productivity on Fort Sill, Oklahoma. *Wildl. Soc. Bull.* 10: 329-332.
- Strand, M. and R. W. Merritt. 1999. Impacts of livestock grazing activities on stream insect communities and the riverine environment. *Amer. Entomologist* 45(1): 13-29.
- Strassmann, B. I. 1983a. Grazing programs on federal rangelands and refuges. consequences for wildlife, beef production, and fossil fuel use. M.S. thesis, Cornell Univ. Ithaca, NY.
- Strassmann, B. I. 1983b. Effects of cattle grazing and haying on wildlife conservation at national wildlife refuges in the United States. *Envl. Manage.* 11(1): 35-44.
- Streator, C. P. 1896. U.S. Fish and Wildlife Service field reports, 1860-1961. Smithsonian Institution Archives Record Unit 7176. Smithsonian Inst. Washington, DC.
- Street, J. M. 1969. An evaluation of the concept of carrying capacity. *Prof. Geogr.* 21: 104-107
- Strittholt, J. R. and R. E. J. Boerner. 1995. Applying biodiversity gap analysis in a regional nature reserve design for the Edge of Appalachia, Ohio (USA). *Conserv. Biol.* 9(5): 1492-1505.
- Stuber, R. J. 1985. Trout habitat, abundance, and fishing opportunities in fenced vs. unfenced riparian habitat along sheep creek, Colorado. Pages 310-314 IN R. R. Johnson, C. D. Ziebell, D. R. Patton, [et al.] (tech. coords.). *Riparian Ecosystems and Their Management: Reconciling Conflicting Uses.* Gen. Tech. Rep. RM-120. USDA – Forest Service.
- Sturtevant, W. C. (ed.). 1978-1996. *HANDBOOK OF NORTH AMERICAN INDIANS.* VOLS 4-12, 15, 17. Smithsonian Inst. Washington, DC.
- Stuwe, M. and C. E. Blohowiak. 1983. McPaal--Micro-computer programs for the analysis of animal locations. Smithsonian Institution. Washington, DC. 20 pages.
- Suarez, A. V., K. S. Pfennig, S. K. Robinson. 1997. Nesting success of a disturbance-dependent songbird on different kinds of edges. *Conserv. Biol.* 11(4): 928-935.
- Sudman, N. and T. Warpinski. 1960. *SAGEBRUSH.* Lone Goose Press. Eugene, OR.
- Sugden, L. G. and G. W. Beyersbergen. 1986. Effect of density and concealment on American crow predation of simulated duck nests. *J. Wildl. Manage.* 50: 9-14.
- Sugden, L. G. and G. W. Beyersbergen. 1987. Effect of nesting cover density on American crow predation of simulated duck nests. *J. Wildl. Manage.* 51: 481-485.
- Summary of North Park Working Group Meeting 1999. Summary North Park Sage Grouse Working Group Meeting. Walden, CO. (May 11, 1999).
- Sundstrom, C., W. G. Hepworth, K. L. Diem. 1973. Abundance, distribution and food habits of the pronghorn: a partial characterization of optimum pronghorn habitat. *Bull. No 12. Wyoming Game and Fish Comm.* Cheyenne, WY.
- Supplemental environmental assessment and monitoring report for predator damage management conducted by wildlife services in Idaho. USDA-Animal and Plant Health Inspection Service. Boise, ID.
- Sutton, G. M. 1967. *OKLAHOMA BIRDS.* Univ. Oklahoma Press. Norman, OK.

- Svedarsky, W. D. 1988. Reproductive ecology of female greater prairie-chickens in Minnesota. Pages 473-577 IN A. T. Bergerudand and M. W. Gratson (eds.). ADAPTIVE STRATEGIES AND POPULATION ECOLOGY OF NORTHERN GROUSE. Univ. Minnesota Press. Minneapolis, MN.
- Sveum, C. 1995. Habitat selection by sage grouse hens during the breeding season in south-central eastern Washington. Batelle Northwest and Oregon State Univ.
- Sveum, C. M. 1996. Habitat selection by sage grouse hens during the breeding season in south-central Washington. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Sveum, C. M., J. A. Crawford, W. D. Edge. 1998a. Use and selection of brood-rearing habitat by sage grouse in south central Washington. Great Basin Natur. 58: 344-351.
- Sveum, C. M., W. D. Edge, J. A. Crawford. 1998b. Nesting habitat selection by sage grouse in south-central Washington. J. Range Manage. 51: 265-269.
- Swainson, W. and J. Richardson. 1831. FAUNA BOREALIS – AMERICANA PART 2: THE BIRDS. J. Murray Publ. London, England.
- Swanson, G. A., M. I. Meyer, V. A. Adomaitis. 1985. Foods consumed by breeding mallards on wetlands of south-central North Dakota. J. Wildl. Manage. 49: 197-203.
- Sweeney, C. 1993. Breeding bird survey of clearcut, prescribed burn and seral/old growth stands of western juniper. Coop. challenge cost-share project. BLM/Golden Eagle Audubon.
- Swenson, J. E., C. A. Simmons, C. D. Eustace. 1987. Decrease of sage grouse, *Centrocercus urophasianus* after ploughing of sagebrush steppe. Biol. Conserv. 41: 125-132.
- Swope, H. M. 1969. Guidelines for range type-conversion projects in sage grouse range. Game Inf. Leaflet No. 74. Colo. Div. Wildl. 3 pages.
- Szaro, R. C. 1989. Riparian forest and scrubland community types of Arizona and New Mexico. Desert Plants 9(3-4): 72-138.
- Szaro, R. C. 1996. BIODIVERSITY IN MANAGED LANDSCAPES: THEORY AND PRACTICE Oxford Univ. Press New York, NY.
- Szaro, R. C. and R. P. Balda. 1982. Selection and monitoring of avian indicator species: an example from a ponderosa pine forest in the Southwest. USDA – Forest Service. Fort Collins, CO.
- Szaro, R. C., S. C. Belfit, J. K. Aitkin, J. N. Rinne. 1985. Impact of grazing on a riparian garter snake. Gen. Tech. Rep. RM-120. USDA–Forest Service, Rocky Mountain Forest and Range Experiment Station. Fort Collins, CO.
- Tate, J. 1986. The Blue List for 1986. Amer. Birds 40(2): 227-235.
- Tate, J., M. S. Boyce, T. R. Smith. 1979. Response of sage grouse to artificially created display ground. Pages 459-463 IN G. A. Swanson (tech. coord.). The Mitigation Symp.: A National Workshop on Mitigating Losses of Fish and Wildlife Habitats. Gen. Tech. Rep. RM-65. USDA – Forest Service.
- Tausch, R. J. 1996. Past changes, present and future impacts, and the assessment of community or ecosystem condition. Pages 97-101 IN J. R. Barrow, E. D. McArthur, R. E. Sosebee, R. J. Tausch (compilers). Proc. Shrubland Ecosystem Dynamics in a Changing Environment; May 23-25, 1995; Las Cruces, NM. Gen. Tech. Rep. INT-338. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT. 275 pages.

- Tausch, R. J., J. C. Chambers, R. R. Blank, R. S. Nowak. 1995. Differential establishment of perennial grass and cheatgrass following fire on an ungrazed sagebrush and juniper site Pages 252-257 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- Tausch, R. J., N. E. West, A. A. Nabi. 1981. Tree age and dominance patterns in Great Basin pinyon-juniper woodlands. *J. Range Manage.* 34: 259-64.
- Taverner, P. A. 1926. Birds of western Canada. Victoria Mem. Mus., Mus. Bull. 41: 173-174
- Taverner, P. A. 1928. BIRDS OF WESTERN CANADA. 2<sup>nd</sup> ed. Natl. Mus. Canada, Biol. Series No. 10, Bull. 41. 360 pages.
- Taylor, D. M. 1986. Effects of cattle grazing on passerine birds nesting in riparian habitat. *J. Range Manage.* 39(3): 254-258.
- Taylor, J. A. 1984. BIOGEOGRAPHY: RECENT ADVANCES AND FUTURE DIRECTIONS. Barnes & Noble Books. Totowa, NJ.
- Taylor, P. D., L. Fahrig, K. Henein, [et al.]. 1993. Connectivity is a vital element of landscape structure. *Oikos* 68: 571-573.
- Taylor, T. C. and L. Kay. 1933. Report of the sage grouse survey, Rich, Wasatch and Box Elder Counties. Utah Agric. Exp. Stn., Misc. Publ. 10: 17-22.
- Taylor, T. G., T. R. Morris, F. Hertelendy. 1962. The effect of pituitary hormones on ovulation in calcium-deficient pullets. *Vet. Rec.* 14: 123-125.
- Tear, T. H., J. M. Scott, P. H. Hayward, [et al.]. 1993. Status and prospects for success of the Endangered Species Act: a look at recovery plans. *Science* 262: 976-977.
- Tear, T. H., J. M. Scott, P. H. Hayward, [et al.]. 1995. Recovery plans and the endangered species act: are criticisms supported by data? *Conserv. Biol.* 9: 182-195.
- Teensma, P. D. A. 1981. Sagebrush (*Artemesia tridentata* Nutt.) and fire in Owens Valley, California.
- Temple, S. A. 1978. ENDANGERED BIRDS: MANAGEMENT TECHNIQUES FOR PRESERVING THREATENED SPECIES. Univ. Wisconsin Press. Madison, WI.
- Temple, S. A. 1986. The problem of avian extinctions. *Curr. Ornithol.* 3: 453-485.
- Temple, S. A. [ed.]. 1978. ENDANGERED BIRDS: MANAGEMENT TECHNIQUES FOR PRESERVING THREATENED SPECIES. Univ. Wisconsin Press. Madison, WI.
- Temple, S. A. and B. A. Wilcox. 1986. Introduction: predicting effects of habitat patchiness and fragmentation. Pages 261-262 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Templeton, A. R. 1986. Coadaptation and outbreeding depression. Pages 105-116 IN M. E. Soulé (ed.) CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinauer Assoc. Sunderland, MA.
- Templeton, A. R., K. Shaw, E. Routman, S. K. Davis. 1990. The genetic consequences of habitat fragmentation. *Ann. Missouri Bot. Garden* 77: 13-27.
- Terborgh, J. 1975. Faunal equilibria and the design of wildlife preserves. Pages 369-380 IN F. B. Golley and E. Medina (eds.). TROPICAL ECOLOGICAL SYSTEMS: TRENDS IN TERRESTRIAL AND AQUATIC RESEARCH. Springer-Verlag. Berlin, Germany.
- Terborgh, J. 1992. Why American songbirds are vanishing. *Sci Amer.* 266: 98-104.

- Terborgh, J. and B. Winter. 1980. Some causes of extinction. Pages 119-134 IN M. E. Soulé and B. A. Wilcox (eds.). *CONSERVATION BIOLOGY: AN EVOLUTIONARY-ECOLOGICAL PERSPECTIVE*. Sinauer Assoc. Sunderland, MA.
- Terres, J. K. 1980. *AUDUBON SOCIETY ENCYCLOPEDIA OF NORTH AMERICAN BIRDS*. Alfred A. Knopf. New York, NY.
- Theobald, D. M., H. Gosnell, W. E. Riebsame. 1996. Land use and landscape change in the Colorado Mountains II: a case study of the East River Valley. *Mountain Research and Develop.* 16: 407-418.
- Thomas, C. D. 1990. What do real population dynamics tell us about minimum viable population sizes? *Conserv. Biol.* 4: 324-27.
- Thomas, D. L. and E. J. Taylor. 1990. Study designs and tests for comparing resource use and availability. *J. Wildl. Manage.* 54: 322-330.
- Thomas, J. W., C. Maser, J. E. Rodiek. 1979. Wildlife habitats in managed rangelands--the Great Basin of southeastern Oregon: riparian zones. *Gen. Tech. Rep. PNW-80* USDA - Forest Service.
- Thomas, J. W., E. D. Forsman, J. B. Lint, E. C. Meslow, B. R. Noon, J. Verner. 1990. *A CONSERVATION STRATEGY FOR THE NORTHERN SPOTTED OWL*. US GPO. Portland, OR.
- Thompson, G. G. 1991. Determining minimum viable populations under the Endangered Species Act. *NOM Tech. Memo NMFS F/NWC-198*. U.S. Dept. Commerce.
- Thompson, W. K. 1946. Live trapping and transplanting ringnecked pheasants and sage grouse. *Proc. West. Assoc. State Game and Fish Comm.* 26: 133-137.
- Thompson, W. L., G. C. White, C. Gowan. 1998. *MONITORING VERTEBRATE POPULATIONS*. Academic Press. New York, NY. 365 pages
- Thorne, E. T. 1969. Diseases in Wyoming sage grouse. *Proc. West. States Sage Grouse Workshop* 6: 192-198.
- Thorne, P. M. 1895. List of birds observed in the vicinity of Fort Keogh, Montana, from July, 1888, to September, 1892. *Auk* 12: 211-219.
- Thorvilson, R. C. 1969. An appraisal of endocrine activity in strutting sage grouse. M.S. thesis, Montana State Univ. Bozeman, MT.
- Thurow, T. L. 1991. Hydrology and erosion. Pages 141-159 IN R. K. Heitschmidt and J. W. Stuth (eds.). *GRAZING MANAGEMENT: AN ECOLOGICAL PERSPECTIVE*. Timber Press. Portland OR.
- Thurow, T. L. and C. A. Taylor, Jr. 1999. Viewpoint: the role of drought in range management. *J. Range Manage.* 52(5): 413-419.
- Thwaites, R. G. 1959. *ORIGINAL JOURNALS OF THE LEWIS AND CLARK EXPEDITION, 1804-1806*. Antiquarian Press Ltd. New York, NY. (in seven volumes and an atlas)
- Tiedemann, A. R. and D. A. Higgins. 1989. Effects of management strategies on water resources. Pages 56-91 IN T. M. Quigley, H. R. Sanderson, A. R. Tiedemann (eds.) *Managing Interior Northwest Rangelands: The Oregon Range Evaluation Project* Gen. Tech. Rep. PNW-238. USDA - Forest Service.
- Tiedemann, A. R. and H. W. Berndt. 1972. Vegetation and soils of a 30-year elk and deer exclosure in central Washington. *Northwest Sci.* 46(1): 59-66.

- Tiedemann, A. R., D. A. Higgins, T. M. Quigley, H. R. Sanderson, D. B. Marx. 1987. Responses of fecal coliform in streamwater to four grazing strategies. *J. Range Manage.* 40: 322-329.
- Tihri, M. J. 1995. Washington state management plan for sage grouse. Wash. Dept. Fish Wildl. Olympia, WA.
- Tillman, D. and J. A. Downing. 1994. Biodiversity and stability in grasslands. *Nature* 367: 363-365.
- Tilman, D. and P. Kareiva (eds.). 1998. SPATIAL ECOLOGY.
- Tipton, F. H. 1994. Cheatgrass, livestock, and rangeland. Pages 414-416 IN S. B. Monsen and S. G. Kitchen (compilers). *Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313.* USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Tirhi, M. J. 1994. Management of sage grouse (*Centrocercus urophasianus*) in Washington. Washington Dept. Fish and Wildlife. Olympia, WA. 109 pages.
- Tirhi, M. J. 1995. Washington state management plan for sage grouse. Washington Dept. Fish and Wildlife. Olympia, WA.
- Tisdale, E. W. and M. Hironaka. 1981. The sagebrush-grass region: a review of the ecological literature. *Forest, Wildl. and Range Exp. Stn. Bull.* 33. Univ. Idaho. Moscow, ID. 31 pages.
- Tisdale, E. W., M. Hironaka, M. A. Fosberg. 1969. The sagebrush region in Idaho -- a problem in range resource management. *Agric. Exp. Stn. Bull.* 512. Univ. Idaho. Moscow, ID.
- Todd, M. and W. Elmore. 1997. Historical changes in western riparian ecosystems. *Trans. North Amer. Wildl. and Nat. Res. Conf.* 62: 454-468.
- Toepfer, J. E., J. A. Newell, J. Monarch. 1988. A method for trapping prairie grouse hens on display grounds. *Gen. Tech. Rep.* 159. USDA-Forest Service.
- Toth, E. F. and J. W. Baglien. 1986. Summary: when habitats fail as predictors – the manager's viewpoint. Pages 255-256 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). *WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES.* Univ. Wisconsin Press. Madison, WI.
- Toweill, D. E. and R. G. Anthony. 1988. Coyote foods in a coniferous forest in Oregon. *J. Wildl. Manage.* 52: 507-512.
- Townsend, J. 1839. Narrative of a journey across the Rocky Mountains to the Columbia River. Reprinted as pages 107-639 IN R. Thwaites (ed.) 1906. *EARLY WESTERN TRAVELS.* VOL. 2. Arthur H. Clark Co. Cleveland, OH.
- Townsend, J. 1969. Policy of BLM as it specifically relates to wildlife habitat, and effects on habitat of chemical control of sagebrush. *Proc. West. States Sage Grouse Workshop.* 6. 131-134.
- Townsend, J. K. 1974. Narrative of a journey across the Rocky Mountains, to the Columbia River, and a visit to the Sandwich Islands, Chili, & etc., with a scientific appendix. *EARLY NINETEENTH-CENTURY STUDIES AND SURVEYS.* Arno Press. New York, NY. (reprinted 1974 in *Natural Sciences in America*).
- Trainer, C. E., J. C. Lemos, T. P. Kistner, W. C. Lightfoot, D. E. Toweill. 1981. Mortality of mule deer fawns in southeastern Oregon. *Wildl. Res. Rep. No. 10.* Oregon Dept. Fish and Wildlife. 113 pages.

- Trainer, C. E., M. J. Willis, G. P. Keister, D. P. Sheehy. 1983. Fawn mortality and habitat use among pronghorn during spring and summer in southeastern Oregon, 1981-82. Wildl. Res. Rep. No. 2. Oregon Dept. Fish and Wildlife. Portland, OR. 117 pages.
- Trimble, S. 1989. THE SAGEBRUSH OCEAN. Univ. Nevada Press. Reno, NV.
- Trimble, S. W. and A. C. Mendel. 1995. The cow as a geomorphic agent – a critical review. Geomorphology 13: 233-253.
- Trippensee, R. E. 1948. WILDLIFE MANAGEMENT: UPLAND GAME AND GENERAL PRINCIPLES. McGraw-Hill. New York, NY. 479 pages.
- Trout, L. E. and J. L. Thiessen. 1973. Physical conditions and range relations of the Owyhee deer herd. Project W-141-R-2. Idaho Dept. Fish and Game.
- Trueblood, R. W. 1952. Sage grouse grass reseeding studies. Utah Fish and Game Bull. 9(8) 1-7.
- Trueblood, R. W. 1954. The effect of grass reseeding in sagebrush lands on sage grouse populations. M.S. thesis, Utah State Agric. College. Logan, UT. 73 pages.
- Tueller, P. T. 1962. Plant succession on two *Artemesia* habitat types in southeastern Oregon. Ph.D. Diss., Oregon State Univ. Corvallis, OR.
- Tueller, P. T. 1994. Great Basin annual vegetation patterns assessed by remote sensing. Pages 126-131 IN S. B. Monsen and S. G. Kitchen (compilers). Proc. Ecology and Management of Annual Rangelands. Gen. Tech. Rep. INT-313. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Tuhy, J. S. 1981. Stream bottom community classification for the Sawtooth Valley, Idaho. M.S. thesis, Univ. Idaho. Moscow, ID.
- Tuomey, J. W. 1891. Notes on some of the range grasses of Arizona. Univ. Arizona Agric. Exp. Stn. Bull. 2.
- Turkowski, F. J. 1975. Dietary adaptability of the desert cottontail. J. Wildlife Manage. 39: 748-756.
- Turner, M. G. 1989. Landscape ecology: the effect of pattern on process. Ann. Rev. Ecol. Syst. 20: 171-197.
- Turner, M. G. 1990. Spatial and temporal analysis of landscape patterns. Landscape Ecol. 4(1): 21-30.
- Turner, M. G., G. J. Arthaud, R. T. Engstrom, [et al.]. 1995. Usefulness of spatially explicit population models in land management. Ecol. Applic. 5: 12-16.
- Turner, R. M., [et al.]. 1980. Arizona range reference areas. Gen. Tech. Rep. RM-79. USDA – Forest Service, Rocky Mountain Forest and Range Exp. Stn. Ft. Collins, CO.
- Tyser, R. W. and C. H. Key. 1988. Spotted knapweed in natural area fescue grasslands: an ecological assessment. Northwest Sci. 62: 151-160.
- Tyson, W. 1995. Ecosystem restoration: theory, practice, and evidence. Pages 116-118 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- U. S. Fish and Wildlife Service. 1994. Hart Mountain Natl. Antelope Refuge Comprehensive Management Plan. USDI-Fish and Wildl. Serv. Portland, OR.
- U.S. Army. 1994. U. S. Army stationing of mechanized or armored combat forces at Fort Lewis, Washington. Final EIS and Record of Decision.

- U.S. Dept. Commerce. 1989. 1987 Census of Agriculture. Vol. 1, Part 47. US GPO. Washington, DC.
- U.S. Dept. Commerce. 1991. Climatological data--Oregon.
- U.S. Dept. Energy. 1992. Environmental assessment: sharp-tailed grouse and pygmy rabbit wildlife mitigation project. Bonneville Power Admin. Portland, Oregon.
- U.S. Dept. Energy. 1996. Hanford site biological resources Manage. Plan. U.S. Dept. of Energy. Richland, Washington.
- U.S. Environmental Protection Agency. 1995. National Water Quality Inventory, 1994 Report to Congress Executive Summary. EPA, Office of Water. Washington DC.
- U.S. Fish and Wildlife Service. 1978. Predator damage in the west: a study of coyote management alternatives. USDI-Fish and Wildlife Service. 168 pages.
- U.S. Fish and Wildlife Service. 1985. Alternatives to enhance production of greater sandhill cranes on Malheur National Wildlife Refuge, Oregon. Final Environmental Assessment. 150 pages.
- U.S. Fish and Wildlife Service. 1989. Alternatives to enhance production of greater sandhill cranes on Malheur National Wildlife Refuge, Oregon. Final Environmental Assessment. 70 pages. (update of 1985 Environmental Assessment ).
- U.S. Fish and Wildlife Service. 1994. Hart Mountain National Antelope Refuge comprehensive management plan. USDI-Fish and Wildlife Service. Portland, OR.
- Udvardy, M. D. F. 1975. World biogeographical provinces. IUCN Occ. Paper 18.
- Udvardy, M. D. F. 1977. THE AUDUBON SOCIETY FIELD GUIDE TO NORTH AMERICAN BIRDS: WESTERN REGION. Alfred A. Knopf. New York, NY.
- Udy, J. R. 1953. Effects of predator control on antelope populations. Pub. no. 5. Utah State Dept. of Fish and Game.
- Ulliman, M. J., A. Sands, T. Hemker. 1998. Conservation plan for Columbian sharp-tailed grouse and its habitats in Idaho. Idaho Dept. Fish and Game. Boise, ID. 32 pages. (draft).
- Uncompahgre Basin Resource Area. 1994. Record of Decision Fruitland Mesa Sage Grouse Lek Development, FY - 94, Environmental Assessment, EA # CO-034-U-94-34. May 31, 1994. Uncompahgre Basin Resource Area, Montrose District, BLM.
- Uncompahgre Basin Resource Area. 1996. Record of Decision Fruitland Mesa Sage Grouse Habitat, Big Game Winter Range, and Livestock Grazing Improvement Project, FY-96, Environmental Assessment, EA # CO-034-U-96-34. June 6, 1996. Uncompahgre Basin Resource Area, Montrose District, BLM.
- Uncompahgre Field Office Fire Management Plan, Environmental Assessment. 1999. Uncompahgre Field Office, BLM. 98 pages with appendix.
- Uncompahgre Field Office Fire Management Plan. 1999. Uncompahgre Field Office, BLM. 34 pages with appendices and pull-out Polygon Explanation Table. Montrose, CO.
- Underwood, A. J. 1995. Ecological research and (and research into) environmental management. Ecol. Applic 5: 232-247.
- Urban, S. L and H. H. Shugart. 1986. Avian Demography in mosaic landscapes: modeling paradigm and preliminary results. Pages 273-279 IN J. Verner, M. L. Morrison, C. J. Ralph (eds.). WILDLIFE 2000. MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.

- Urness, P. J. 1979. Wildlife habitat manipulation in sagebrush ecosystems. Pages 169-178 IN The Sagebrush Ecosystem: A Symposium. Utah State Univ., College of Nat. Resources Logan, UT.
- Urness, P. J., A. D. Smith, R. K. Watkins. 1977. Comparison of *in vivo* and *in vitro* dry matter digestibility of mule deer forages. J. Range Manage. 30(2): 119-121.
- USDA - Forest Service. 1995. Wildlife, fish, and sensitive plant habitat management Washington, DC.
- USDA, Forest Service. 1962. Rotation Grazing Management. USDA - Forest Service, Region 2. Washington, DC.
- USDA, Forest Service. 1980. An Assessment of the Forest and Range Land Situation in the United States. USDA - Forest Service. Washington, DC.
- USDA, Forest Service. 1996. Status of the Interior Columbia Basin: Summary of Scientific Findings. Gen. Tech. Rep. PNW-385. USDA - Forest Service, Pacific Northwest Res. Stn. Portland, OR.
- USDA. 1936. The western range. Senate Doc. 199, 74<sup>th</sup> Cong., 2<sup>nd</sup> sess. 620 pages.
- USDA. 1986. Conservation Reserve Program: Outline and Administration Handbook. Conserv. Reserve Program, Deputy Adm., State and County Operations. Washington, DC.
- USDI and USDA. 1995. Federal Wildland Fire Management: Policy and Program Review Final Report. U.S. Dept. Interior and U.S. Dept. Agriculture. Washington, DC.
- USDI, BLM. 1951. Rebuilding the federal range. USDI-BLM. Washington, DC.
- USDI, BLM. 1976. The Taylor Grazing Act of June 28, 1934. Information Bull. No. 5 (with updates). US GPO. Washington, DC.
- USDI, National Biological Survey. undated. NP Flora [Data base]. USDI-National Biological Survey. Davis, CA.
- USDI. 1990. State of the Public Rangelands: 1990. USDI- BLM. Washington, DC. 12 pages.
- USDI. 1994a. Rangeland Reform '94. Final Environmental Impact Statement Dept. of Interior - BLM. Washington, DC.
- USDI. 1994b. Western riparian wetlands (Chapter 12). Pages 213-238 IN The Impact of Federal Programs on Wetlands. Vol. II. A report to Congress by the Secretary of the Interior. USDI -Fish and Wildlife Service. Arlington, VA.
- USDI. 1994c. Hanford reach of the Columbia River: comprehensive river conservation study and final EIS.
- USDI. 1996a. Effects of military training and fire in Snake River birds of prey national conservation area. BLM/IDARNG Res. Proj. Final Rept. USDI-U.S. Geol. Surv., Biol. Res. Div. Snake River Field Station. Boise, ID.
- Usher, M. B. 1988. Biological invasions of nature reserves: a search for generalizations. Biol. Conserv. 44: 119-135.
- Utah Draft Conservation Agreement. 1998. Conservation Agreement – Draft 10/29/98 – Centrocercus urophasianus/Gunnison Sage Grouse. Unpaginated draft document.
- Utah State University. 1979. The Sagebrush Ecosystem: A Symposium. Utah State Univ., College of Nat. Resources. Logan, UT.
- Vale, T. R. 1973. The sagebrush landscape of the intermountain west. Ph.D. Diss., Univ. Calif. Berkeley, CA.

- Vale, T. R. 1974. Sagebrush conversion: an element of contemporary environmental change in the western United States. *Biol. Conserv.* 6: 274-284.
- Vale, T. R. 1975. Presettlement vegetation in sagebrush/grass area of the intermountain west. *J. Range Manage.* 28: 32-36.
- Vallentine, J. F. 1990. GRAZING MANAGEMENT. Academic Press. San Diego, CA.
- Vallentine, J. F. and A. R. Stevens. 1994. Use of livestock to control cheatgrass--a review. Pages 202-210 IN S. B. Monsen and S. G. Kitchen (eds.). Proc. Ecology and Management of Annual Rangelands. INT-GTR-313. Intermountain Res. Stn., USDA - Forest Service. Ogden, UT.
- van Horne, B. 1983. Density as a misleading indicator of habitat quality. *J. Wildl. Manage.* 47: 893-901.
- Van Tyne, J. and A. J. Berger. 1976. FUNDAMENTALS OF ORNITHOLOGY. 2<sup>nd</sup> ed. John Wiley & Sons. New York, NY. 808 pages.
- Van Vuren, D. 1979. Ecology and behaviour of bison in the Henry Mountains, Utah. M.S. thesis, Oregon State Univ. Corvallis, OR.
- Van Vuren, D. 1983. Group dynamics and summer home range of bison in southern Utah. *J. Mammal.* 64: 329-332.
- Vankat, J. L. 1979. THE NATURAL VEGETATION OF NORTH AMERICA. John Wiley & Sons. New York, NY. 261 pages.
- Varley, G. C. and G. R. Gradwell. 1960. Key factors in population studies. *J. Animal Ecol.* 29: 399-401.
- Varvio, S. L., R. Chakraborty, M. Nei. 1986. Genetic variation in subdivided populations and conservation genetics. *Heredity* 57: 189-198.
- Vasek, F. C. and R. F. Thorne. 1977. Transmontane coniferous vegetation. Pages 797-832 IN M. G. Barbour and J. Major (eds.). TERRESTRIAL VEGETATION OF CALIFORNIA. Wiley Interscience. New York, NY.
- Vass, A. F. 1926. Range and ranch studies in Wyoming. *Wyoming Agric. Exp. Stn. Bull.* No. 147. 150 pages.
- Vehrencamp, S. L., J. W. Bradbury, R. M. Gibson. 1989. The energetic cost of display in male sage grouse. *Animal Behav.* 38: 885-896.
- Veit, R. R. and M. A. Lewis. 1996. Dispersal, population growth, and the Allee effect: dynamics of the House Finch invasion of Eastern North America. *Amer. Natur.* 148: 255-274.
- Verner, J., M. L. Morrison, C. J. Ralph (eds). 1986. WILDLIFE 2000: MODELING HABITAT RELATIONSHIPS OF TERRESTRIAL VERTEBRATES. Univ. Wisconsin Press. Madison, WI.
- Vickery, P. D., M. L. Hunter, J. V. Wells. 1992a. Evidence of incidental nest predation and its effects on nests of threatened grassland birds. *Oikos* 63: 281-288.
- Visher, S. S. 1911. Annotated list of the birds of Harding County, northwestern South Dakota. *Auk* 28: 5-16.
- Visher, S. S. 1913. Notes on the sage hen. *Wilson Bull.* 25: 90-91.
- Vitousek, P. M. 1994. Beyond global warming: ecology and global change. *Ecology* 75: 1861-1876.
- Vitousek, P. M., C. M. D'Antonio, L. L. Loope, M. Rejmanek. 1997. Introduced species: a significant component of human-caused global change. *New Zealand J. Ecol.* 21(1): 1-

- Vitousek, P. M., H. A. Mooney, J. Lubchenco, J. M. Melillo. 1997. Human domination of earth's ecosystems. *Science* 277(5325): 494-.
- Vitousek, P. M., L. L. Loope, H. Adsersen, C. M. D'Antonio. 1996. Island ecosystems: do they represent "natural experiments" in biological diversity and ecosystem function? *SCOPE Rep.* 55: 245-.
- Voight, W. 1976. PUBLIC GRAZING LANDS: USE AND MISUSE BY INDUSTRY AND GOVERNMENT. Rutgers Univ. Press. New Brunswick, NJ.
- Vollmer, A. T., B. G. Maza, P. A. Medica, F. B. Turner, S. A. Bamberg. 1976. The impact of off-road vehicles on a desert ecosystem. *Envl. Manage.* 1(2): 115-129.
- Voth, A. S. and K. D. Sanders. 1983. Ecological changes of grazed and ungrazed plant communities. Pages 176-179 *IN* Managing Intermountain Rangelands - Improvement of Range and Wildlife Habitats. Gen. Tech. Rep. INT-157. USDA - Forest Service. Ogden, UT.
- Wade, D. A. 1981. Coyote management, a rationale for population reduction. *Proc. Great Plains Wildl. Damage Control Workshop* 5: 150-170.
- Wagner, F. H. 1978a. Livestock grazing and the livestock industry. Pages 121-145 *IN* H. P. Brokaw (ed.). WILDLIFE AND AMERICA. Council on Environmental Quality. Washington, DC.
- Wagner, F. H. 1978b. Western rangelands: troubled American resource. *Trans. North Amer. Wildl. and Nat. Res. Conf.* 43: 453-461.
- Wagner, F. H. and L. C. Stoddart. 1972. Influence of coyote predation on black-tailed jackrabbit populations in Utah. *J. Wildl. Manage.* 36: 329-342.
- Wahlberg, N., A. Moilanen, I. Hanski. 1996. Predicting the occurrence of endangered species in fragmented landscapes. *Science* 273(5281).
- Waibel, P. E. 1977. Phosphorus in nutrition of turkeys and game birds. Pages 21-72 *IN* P. E. Waibel, R. H. J. Harms, B. L. Damron (eds.). NFIA Literature Review on Phosphorus in Poultry and Game Bird Nutrition. Nat. Feed Ingredients Assoc., Grants-in-Aid Committee. West Des Moines, IA.
- Wait, S. 1997. Form Letter dated Dec. 3, 1997 to "Important Habitat Landowner and those nearby" (s) Scott Wait, Colo. Div. Wildlife, Dept. Natural Resources. Denver, CO. 2 pages, including graph. Obtained from the Colorado BLM via Freedom of Information Act requests.
- Wakkinen, W. L. 1990. Nest site characteristics and spring-summer movements of migratory sage grouse in southeastern Idaho. M.S. thesis, Univ. Idaho. Moscow, ID. 57 pages.
- Wakkinen, W. L. 1990. Nest site characteristics and spring-summer movements of migratory sage grouse in southeastern Idaho. M. S. thesis, Univ. Idaho. Moscow, ID.
- Wakkinen, W. L., K. P. Reese, J. W. Connelly, R. A. Fischer. 1992. An improved spotlighting technique for capturing sage grouse. *Wildl. Soc. Bull.* 20: 425-426.
- Wakkinen, W. L., K. P. Reese, J. W. Connelly. 1992. Sage grouse nest locations in relation to leks. *J. Wildl. Manage.* 56: 381-383.
- Wald, J. and D. Alberswerth. 1989. Our ailing public rangelands: still ailing. Condition Report 1989. National Wildlife Federation and Natural Resources Defense Council. Washington, DC.

- Walker, B. W. 1995. Conserving biological diversity through ecosystem resilience. *Biol. Conserv.* 9: 747-752.
- Wallace, A. and D. L. Nelson. 1990. Wildland shrub dieoffs following excessively wet periods: a synthesis, Pages 81-83 IN E. D. McArthur, E. M. Romney, S. D. Smith, P. T. Tueller (compilers). Proc. Symp. on Cheatgrass Invasion, Shrub Die-off, and Other Aspects of Shrub Biology and Management. Gen. Tech. Rep. INT-276. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 416 pages.
- Wallace, G. N., J. E. Mitchell, and M. D. Wells. 1996. Visitor perceptions about grazing on a forest service cattle allotment. Res. Paper RM-321. USDA--Forest Service, Rocky Mountain Forest and Range Experiment Station. Fort Collins, CO.
- Wallace, L. L. 1987. Effects of clipping and soil compaction on growth, morphology, and mycorrhizal colonization of *Schizachyrium scoparium*, a 4-carbon pathway bunchgrass. *Oecologia* 72: 423-428.
- Wallestad, R. O. 1970. Summer movements and habitat use by sage grouse broods in central Montana. M.S. thesis, Montana State Univ. Bozeman, MT.
- Wallestad, R. O. 1971. Summer movements and habitat use by sage grouse broods in central Montana. *J. Wildl. Manage.* 35: 129-136.
- Wallestad, R. O. 1973a. Food habits of adult sage grouse. *Proc. West. States Sage Grouse Workshop* 8: 53. (abstract).
- Wallestad, R. O. 1973b. Movements and nesting requirements of sage grouse hens in central Montana. *Proc. West. States Sage Grouse Workshop* 8: 54.
- Wallestad, R. O. 1975a. Life history and habitat requirements of sage grouse in central Montana. Montana Dept. Fish and Game, Game Management Div. Helena, MT. USDI-BLM. 65 pages.
- Wallestad, R. O. 1975b. Male sage grouse responses to sagebrush treatment. *J. Wildlife Manage.* 39: 482-484.
- Wallestad, R. O. and D. B. Pyrah. 1974. Movements and nesting requirements of sage grouse hens in central Montana. *J. Wildl. Manage.* 38: 630-633.
- Wallestad, R. O. and P. Schladweiler. 1974. Breeding season movements and habitat selection of male sage grouse. *J. Wildl. Manage.* 38: 634-637.
- Wallestad, R. O. and R. C. Watts. 1973. Factors affecting annual sage grouse productivity in central Montana. Fed. Aid Wildl. Restor. Proj. W-120-R-3, job G.B.-2.01, plan III. Montana Dept. Fish and Game. Helena, MT. 23 pages.
- Wallestad, R., O., J. G. Peterson, R. L. Eng. 1975. Foods of adult sage grouse in central Montana. *J. Wildl. Manage.* 39(3): 628-630.
- Wallihan, A. G. 1901. *CAMERA SHOTS OF BIG GAME*. Doubleday, Page and Co. New York, NY. 77 pages.
- Walsberg, G. E. 1978. Energy expenditure in free-living birds: patterns and diversity. *Proc. Int. Ornithol. Congr.* 17: 300-305.
- Walsberg, G. E. 1981. Nest-site selection and the radiative environment of the warbling vireo. *Condor* 83: 86-88.
- Walsberg, G. E. 1983. Avian ecological energetics. *Avian Biol.* 7: 161-220.
- Walsberg, G. E. 1983a. Avian ecological energetics. *Avian Biol.* 7: 161-220.

- Walsberg, G. E. 1983b. Ecological energetics: what are the questions? Pages 135-164 IN A. H. Brush and G. A. Clark (eds.). PERSPECTIVES IN ORNITHOLOGY. Cambridge Univ. Press. New York, NY.
- Walsberg, G. E. 1985. Physiological consequences of microhabitat selection. Pages 389-413 IN M. L. Cody (ed.). HABITAT SELECTION IN BIRDS. Academic Press. New York, NY.
- Walsberg, G. E. and J. R. King. 1978a. The energetic consequences of incubation for two passerine species. Auk 95: 644-655.
- Walsberg, G. E. and J. R. King. 1978b. The heat budget of incubating mountain white-crowned sparrows (*Zonotrichia leucophrys oriantha*) in Oregon. Physiol. Zool. 51: 92-103.
- Walsh, S. J. 1985. Geographic information systems for natural resource management. J. Soil and Water Conserv.
- Walters, C. J. and R. Hilborn. 1978. Ecological optimization and adaptive management. Ann. Rev. Ecol. Syst. 9: 157-188.
- Walters, J. R. 1998. The ecological basis of avian sensitivity to habitat fragmentation. Pages 181-187 IN J. M. Marzluff and R. Sallabanks (eds.). AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Wambolt, C. L. 1998. Sagebrush and ungulate relationships on Yellowstone's northern range. Wildl. Soc. Bull. 26(3): 429-437.
- Wambolt, C. L. and G. F. Payne. 1986. An 18-year comparison of control methods for Wyoming big sagebrush in southwestern Montana. J. Range Manage. 39: 314-319.
- Wambolt, C. L., R. G. Kelsey, T. L. Personius, [et al.]. 1987. Preference and digestibility of three big sagebrush subspecies and black sagebrush as related to crude terpenoid chemistry. Pages 71-73 IN F. D. Provenza, J. T. Flinders, and E. D. McArthur (compilers). Proc. Symp. Plant-Herbivore Interactions, 1985; Snowbird, UT. Gen. Tech. Rep. INT-222. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT.
- Wanek, W. J. and L. H. Schumacher. 1975. A continuing study of the ecological impact of snowmobiling in northern Minnesota. Final Research Report for 1974-1975. Bemidji State College. Bemidji, MN.
- Ward, D. J. 1984. Ecological relationships of Columbian sharp-tailed grouse leks in Curlew National Grasslands, Idaho, with special emphasis on effects of visibility. M.S. thesis, Utah State Univ. Logan, UT. 63 pages.
- Ward, J. C., M. Martin, W. J. Allred. 1942. The susceptibility of sage grouse to strychnine. J. Wildl. Manage. 6: 55-57.
- Ware, L. 1951. Curtain falls on Utah's greatest hunt. Utah Fish and Game Bull. 8(12): 1-2.
- Warner, R. E. 1992. Long-term perspectives of upland game bird research in North America. Pages 709-717 IN D. R. McCullough and R. H. Barrett (eds.). WILDLIFE 2001: POPULATIONS. Elsevier Sci. Publ. New York, NY.
- Warner, R. E. and K. M. Hendrix (eds.). 1984. CALIFORNIA RIPARIAN SYSTEMS: ECOLOGY, CONSERVATION, AND PRODUCTIVE MANAGEMENT. Univ. California Press. Berkeley, CA.
- Warner, R. E., S. L. Etter, G. B. Joselyn, J. A. Ellis. 1984. Declining survival of ring-necked pheasant chicks in Illinois agricultural ecosystems. J. Wildl. Manage. 48: 82-88.

- Warren, A. and J. K. Maizels. 1977. Ecological change and desertification IN Desertification: Its Causes and Consequences--UN Conference on Desertification; Aug. 29-Sep. 9, 1977, Nairobi, Kenya. Pergamon Press. Elmsford, NY.
- Warren, E. R. 1908. Northwestern Colorado bird notes. Condor 10: 18-26.
- Warren, E. R. 1909. Notes on the birds of southwestern Montrose County, Colorado. Condor 11: 11-17.
- Warren, E. R. 1912. Some north-central Colorado bird notes. Condor 14: 81-104.
- Warren, E. R. 1916. Notes on the birds of the Elk Mountain region, Gunnison County, Colorado. Auk 33: 292-317.
- Warren, P. L. and L. S. Anderson. 1987. Vegetation recovery following livestock removal near Quitobaquito Spring, Organ Pipe National Monument. Tech. Rep. 20. Univ. Arizona, Coop. National Park Res. Study Unit. Tucson, AZ. 40 pages.
- Warren, S. D., T. L. Thurow, W. H. Blackburn, N. E. Garza. 1986. The influence of livestock trampling under intensive rotation grazing on soil hydrologic characteristics. J. Range Manage. 39: 491-495.
- Warren, S. D., W. H. Blackburn, C. A. Taylor Jr. 1986. Effects of season and stage of rotation cycle on hydrologic condition of rangeland under intensive rotation grazing. J. Range Manage. 39: 486-491.
- Warren, S. D., W. H. Blackburn, C. A. Taylor Jr. 1986. Soil hydrologic response to number of pastures and stocking density under intensive rotation grazing. J. Range Manage. 39: 500-504.
- Washington Dept. Fish and Wildlife. 1994. Washington State management plan for sage grouse (*Centrocercus urophasianus*). Wash. Dept. Fish and Wildl. Olympia, WA. (draft).
- Washington Dept. Fish and Wildlife. 1995. Washington State management plan for sage grouse. Wash. Dept. Fish and Wildl. Olympia, WA.
- Washington State Legislature. 1993. House Bill 1309, First Special Sess. Wash. State Leg. Olympia, WA.
- Watson, A. and R. R. Moss. 1979. Population cycles in the Tetraonidae. Orn. Fenn. 56: 87-109.
- Watts, C. R. 1973. Factors affecting annual sage grouse productivity in central Montana. Proc. West. States Sage Grouse Workshop 8: 49. (abstract).
- Watts, S. E. 1998. Short-term influence of tank tracks on vegetation and microphytic crusts in shrubsteppe habitat. Envl. Manage. 22: 611-616.
- Waugh, F. L. 1964. The spiny-tailed pheasant goes modern. Colo. Outdoors 13(6): 14-17.
- Waugh, F. L. 1965. Sage grouse in danger. Colo. Outdoors 14(6): 32-33.
- Weatherhead, P. J. 1986. How unusual are unusual events? Amer. Natur. 128: 150-154.
- Weaver, J. E. and F. W. Albertson. 1940. Deterioration of midwestern ranges. Ecology 21: 216-236.
- Weaver, J. L. 1987. Underground plant development and its relation to grazing. Ecology 11: 543-547.
- Webb, D. R. 1981. Macro-habitat patch structure, environmental harshness, and *Marmota flaviventris*. Behav. Ecol. Sociobiol. 8: 175-182.
- Webb, D. R. 1987. Thermal tolerance of avian embryos: a review. Condor 89: 874-898.
- Webb, D. R. 1990. Thermal and energetic stress in passerine birds. Paper presented to the International Ornithological Congress; fall 1990; Christchurch, New Zealand.

- Webb, D. R. 1993a. Sage grouse nest site characteristics and microclimates in Wyoming. Report to the Wyoming Dept. Game and Fish. Cheyenne, WY.
- Webb, D. R. 1993b. Effects of cattle grazing on sage grouse: indirect biophysical effects. Report to the Wyoming Dept. Game and Fish. Cheyenne, WY.
- Webb, D. R. and J. R. King. 1983. An analysis of the heat budgets of the eggs and nest of the white-crowned sparrow, *Zonotrichia leucophrys*, in relation to parental attentiveness. *Physiol. Zool.* 56: 493-505.
- Webb, D. R. and J. R. King. 1983. Heat transfer relations of avian nestlings. *J. Thermal Biol.* 8: 301-310.
- Webb, D. R. and J. R. King. 1984. Effects of wetting on insulation of bird and mammal coats. *J. Thermal Biol.* 9: 189-191.
- Webb, R. H. 1982. Off-road motorcycle effects on a desert soil. *Environ.-Conserv.* 9: 197-208.
- Webb, R. H., H. G. Wilshire, M. A. Henry. 1983. Natural recovery of soils and vegetation following human disturbance. Pages 279-302 IN R. H. Webb and H. G. Wilshire (eds.) *ENVIRONMENTAL EFFECTS OF OFF-ROAD VEHICLES: IMPACTS AND MANAGEMENT IN ARID REGIONS*. Springer-Verlag. New York, NY.
- Webb, T. 1981. The past 11,000 years of vegetational change in eastern North America. *BioScience* 31: 501-506.
- Weber, J. W. and E. J. Larrison. 1977. *BIRDS OF SOUTHEASTERN WASHINGTON*. Univ. Idaho Press. Moscow, ID.
- Weeden, R. S. and J. B. Theberge. 1972. The dynamics of a fluctuating population of rock ptarmigan in Alaska. *Proc. Intern. Ornithol. Congr.* 15: 90-106.
- Wegge, P. 1984. Spacing pattern and habitat use of Capercaillie hens in spring. *Proc. Intl Symp. on Grouse* 3: 261-277.
- Wehr, E. E. 1929. Notes of the 125<sup>th</sup> meeting of the Helminthological Society of Washington. *J. Parasit.* 16: 168.
- Wehr, E. E. 1931. A new species of nematode worm from the sage grouse. *Proc. U.S. Natl. Mus.* 79(3): 1-3.
- Wehr, E. E. 1933. Notes of the 148<sup>th</sup> meeting of the Helminthological Society of Washington. *J. Parasit.* 19: 90-91.
- Weichel, B. and D. Hjertaas. 1992. Recovery and management plan for sage grouse in Saskatchewan. Saskatchewan Wildlife Branch. Regina, Saskatchewan, Canada.
- Welch, B. L. 1999. Letter to Dr. Randy Webb. (August 19, 1999) (copy on file with author).
- Welch, B. L. draft manuscript. Big sagebrush: a sea fragmented into lakes, ponds, and puddles Chapter II. Animals of big sagebrush. to be published as a Gen. Tech. Rep. by USDA – Forest Service, Shrub Sciences Laboratory, Rocky Mountain Research Stn. Provo, UT. (draft, June 24, 1999).
- Welch, B. L. draft manuscript. Big sagebrush: a sea fragmented into lakes, ponds, and puddles. Chapter III. Other foragers on big sagebrush. to be published as a Gen. Tech. Rep. by USDA – Forest Service, Shrub Sciences Laboratory, Rocky Mountain Research Stn. Provo, UT. (draft, June 24, 1999).
- Welch, B. L., C. L. Cox, T. K. Sales. 1995. Strutting sounds and strutting posturing of two Utah sage grouse populations. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT.

- Welch, B. L., F. J. Wagstaff, J. A. Roberson. 1991. Preference of wintering sage grouse for big sagebrush. *J. Range Manage.* 44(5): 462-465.
- Welch, B. L., F. J. Wagstaff, R. L. Williams. 1990. Sage grouse status and recovery plan for Strawberry Valley, Utah. Res. Paper INT-430. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 16 pages.
- Welch, B. L., J. C. Pederson, R. C. Rodriguez. 1988. Selection of big sagebrush by sage grouse. *Great Basin Natur.* 48: 274-279.
- Welch, B. L., J. C. Pederson, R. C. Rodriguez. 1989. Monoterpeneoid content of sage grouse ingesta. *J. Chemical Ecol.* 15: 961-969.
- Welch, B. L., McArthur E. D., Nelson, D. L., Pederson J. C., Davis J. N. 'Hobble Creek' – a superior selection of low-elevation mountain big sagebrush. Res. Paper INT-370. USDA-Forest Service, Intermountain Res. Stn. Ogden, UT.
- Weller, M. W. 1996. Birds of rangeland wetlands. Pages 71-82 IN P. R. Krausman (ed.) *RANGELAND WILDLIFE*. Soc. Range Manage. Denver CO.
- Weller, M. W., B. H. Wingfield, J. P. Low. 1958. Effects of habitat deterioration on bird populations in a small Utah marsh. *Condor* 60: 220-226.
- Welty, J. C. and L. Baptista. 1988. *THE LIFE OF BIRDS*. 4th ed. Saunders Publ. New York, NY.
- Weltz, M. and M. K. Wood. 1986. Short duration grazing in central New Mexico: effects on infiltration rates. *J. Range Manage.* 39: 365-368.
- Weltz, M. and M. K. Wood. 1986. Short-duration grazing in central New Mexico: effects of sediment production. *J. Soil Water Conserv.* Jul-Aug: 262-266.
- Weltz, M., M. K. Wood, E. E. Parker. 1989. Flash grazing and trampling: effects on infiltration rates and sediment yield on a selected New Mexico range site. *J. Arid Environments* 16: 95-100.
- Weltzin, J. F., S. Archer, R. K. Heitschmidt. 1997. Small mammal regulation of vegetation structure in a temperate savanna. *Ecology* 78(3): 751-763.
- Wennergren, U., M. Ruckelshaus, P. Kareiva. 1995. The promise and limitations of spatial models in conservation biology. *Oikos* 74: 349-356.
- West, N. E. 1968. *ECOLOGY AND MANAGEMENT OF SALT DESERT SHRUB RANGES: A BIBLIOGRAPHY*. Mimeograph Series 505. Utah State Univ., Agric. Exp. Station. Logan, UT.
- West, N. E. 1979. Basic synecological relationships of sagebrush-dominated lands in the Great Basin and Colorado Plateau. Pages 33-41 IN *The Sagebrush Ecosystem: A Symposium*. Utah State Univ., College of Nat. Resources. Logan, UT.
- West, N. E. 1983a. Great Basin – Colorado plateau sagebrush semi-desert. Pages 331-349 IN N. E. West (ed.). *ECOSYSTEMS OF THE WORLD 5: TEMPERATE DESERTS AND SEMI-DESERTS*. Elsevier Scientific Publ., Ltd. Sussex, UK.
- West, N. E. 1983b. Western intermountain sagebrush steppe. Pages 351-397 IN N. E. West (ed.). *ECOSYSTEMS OF THE WORLD 5: TEMPERATE DESERTS AND SEMI-DESERTS*. Elsevier Scientific Publ., Ltd. Sussex, UK.
- West, N. E. 1984. Successional patterns and productivity potentials of pinyon-juniper ecosystems. Pages 1301-1332 IN *DEVELOPING STRATEGIES FOR RANGELAND MANAGEMENT*. Natl. Research Council/Natl. Acad. Sciences. Westview Press. Boulder, CO.

- West, N. E. 1988. Intermountain deserts, shrub steppes, and woodlands. Pages 209-230 IN M. G. Barbour and W. D. Billings (eds.). NORTH AMERICAN TERRESTRIAL VEGETATION. Cambridge Univ. Press. Cambridge, MA.
- West, N. E. 1990. Structure and function of microphytic soil crusts in wildland ecosystems of arid and semiarid regions. *Advances Ecol. Res.* 20: 179-223.
- West, N. E. 1996. Strategies for maintenance and repair of biotic community diversity on rangelands. Pages 326-346 IN R. C. Szaro and D. W. Johnston (eds.). BIODIVERSITY IN MANAGED LANDSCAPES. Oxford Univ. Press. New York, NY.
- West, N. E. and N. S. Van Pelt. 1987. Successional patterns in pinyon-juniper woodlands IN R. L. Everett (ed.). Proc. Pinyon-Juniper Conf. Gen. Tech. Rep. INT-215. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- West, N. E., F. D. Provenza, P. S. Johnson, M. K. Owens. 1984. Vegetation change after 13 years of livestock grazing exclusion on sagebrush semidesert in west central Utah. *J. Range Manage.* 37: 262-264.
- West, N. E., K. H. Rea, R. O. Harniss. 1979. Plant demographic studies in sagebrush grass communities of southeastern Idaho. *Ecology* 60: 376-388.
- West-Eberhard, M. J. 1983. Sexual selection, social competition, and speciation. *Q. Rev. Biol.* 58: 155-183.
- Westemeier, R. L., J. D. Brawn, S. A. Simpson, T. L. Esker, R. W. Jansen, J. W. Walk, E. L. Kershner, J. L. Bouzat, K. N. Paige. 1998. Tracking the long-term decline and recovery of an isolated population. *Science* 282(5394): 1695-1698.
- Western Association of State Fish and Game Commissioners. 1968. Resolution no. 9: preservation of sage grouse habitat. *Proc. West. Assoc. State Fish and Game Comm.* 48: 702.
- Western Association of State Fish and Game Commissioners. 1974. Resolution no. 9: guidelines for sage grouse range. *Proc. West. Assoc. State Fish and Game Comm.* 54: 398-399.
- Western Sage and Columbian Sharp-tailed Grouse Workshop. 1998. Billings, MT.
- Western Sage Grouse Management Plan. (1 October 1998 to 30 September 2003). Yakima Training Center.
- Western States Sage Grouse Committee. 1985. Trans. Western States Sage Grouse Workshop Alturas, California.
- Western States Sage Grouse Status Conference. 1999. Summary of proceedings. Boise, ID.
- Western States Sage Grouse Technical Committee (WSSGTC). 1999. Sage Grouse Status, 1999. Reno, NV. (unpaginated and unpublished document, Jun. 14, 1999).
- Western States Sage Grouse Technical Committee. 1985. Western States Sage Grouse Workshop Trans. 14.
- Western States Sage Grouse Technical Committee. 1995. Status of sage grouse. Western States Sage Grouse Tech. Comm. San Diego, CA. 61 pages. (unpubl. report).
- Western States Sage Grouse Workshop. 1987. Fifteenth Western States Sage Grouse Workshop Trans.; July 29, 1987; Midway, UT. Western Assn. of Fish and Game Agencies.
- Western, D. and M. C. Pearl (eds.). 1989. Conservation for the 21<sup>st</sup> Century. Wildlife Conservation Intl, New York Zoological Society. Oxford Univ. Press. New York, NY. (based Conservation 2100 (conference); Oct. 20-23, 1986; New York, NY).

- Westerskov, K. 1965. Winter ecology of the partridge (*Perdix perdix*) in the Canadian prairie. Proc. New Zealand Ecol. Soc. 12: 23-30.
- Westervelt, J. D., B. Hannon, P. Sheikh, A. Cheng, C. Rubin. 1995. Dynamic, spatial, ecological modeling – a demonstrated simulation of the sage grouse habitat at the Yakima Training Center, Washington. U.S. Army, Construction Engineering Research Lab. Champaign, IL.
- Westoby, M., B. Walker, I. Noy-Meir. 1989. Opportunistic management for rangelands not at equilibrium. J. Range Manage. 42: 266-274.
- Whisenant, S. G. 1990. Changing fire frequencies on Idaho's Snake River plains: ecological and management implications. Pages 4-10 IN E. D. McArthur, E. M. Romney, S. D. Smith, P. T. Tueller (compilers). Proc. Symp. on Cheatgrass Invasion, Shrub Die-off, and Other Aspects of Shrub Biology and Management. Gen. Tech. Rep. INT-276. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT. 416 pages.
- Whisenant, S. G. 1995. Landscape dynamics and arid land restoration. Pages 26-34 IN B. A. Roundy, E. D. McArthur, J. S. Haley, D. K. Mann (compilers). Proc. Wildland Shrub and Arid Land Restoration Symp. Gen. Tech. Rep. INT-315. USDA – Forest Service. Ogden, UT.
- Whitcomb, R. F., C. S. Robbins, J. F. Lynch, [et al.]. 1981. Effects of forest fragmentation on the avifauna of the eastern deciduous forest. Pages 125-205 IN R. L. Burgess and D. M. Sharpe (eds.). FOREST ISLAND DYNAMICS IN MAN-DOMINATED LANDSCAPES. Springer-Verlag. New York, NY.
- White, G. C. 1999. Population viability analysis: data requirements and essential analyses. Pages IN L. Boitani and T. K. Fuller (eds.). RESEARCH TECHNIQUES IN ANIMAL ECOLOGY. Columbia Univ. Press. New York, NY. (in press).
- White, G. C., A. B. Franklin, T. M. Shenk. 2000. Estimating parameters of PVA models from data on marked animals IN S. R. Beissinger and D. R. McCullough (eds.). POPULATION VIABILITY ANALYSIS. (submitted for publication).
- White, G. C., W. M. Block, J. P. Ward, J. L. Ganey, A. B. Franklin, [et al.]. 1999. Science versus political reality in delisting criteria for a threatened species: the Mexican spotted owl experience. Trans. North Amer. Wildl. and Nat. Res. Conf. (in press).
- White, P. S. 1987. Natural disturbance, patch dynamics, and landscape pattern in natural areas. Natural Areas J. 7(1): 14-22.
- Whitford, W. G. 1997. Desertification and animal biodiversity in the desert grasslands of North America. J. Arid Env. 37: 709-
- Whitford, W. G., R. Repass, L. W. Parker, N. Z. Elkins. 1982. Effects of initial litter accumulation and climate on litter disappearance in a desert ecosystem. Amer. Midland Natur. 108: 105-110.
- Whittaker, R. 1999. ISLAND BIOGEOGRAPHY : ECOLOGY, EVOLUTION, AND CONSERVATION. Oxford Univ. Press. New York, NY.
- Whittaker, R. H. and D. Goodman. 1979. Classifying species according to their demographic strategy. I. Population fluctuations and environmental heterogeneity. Amer. Natur. 113: 185-200.
- Wickham, J. D. and D. J. Norton. 1994. Mapping and analyzing landscape patterns. Landscape Ecol. 9(1): 7-23.

- Wiens, J. A. 1974a. Climatic instability and the 'ecological saturation' of bird communities in North American grasslands. *Condor* 76: 385-400.
- Wiens, J. A. 1974b. Habitat heterogeneity and avian community structure in North American grasslands. *Amer. Midl. Natur.* 91: 195-213.
- Wiens, J. A. 1976. Population responses to patchy environments. *Ann. Rev. Ecol. Syst.* 7: 81-120.
- Wiens, J. A. 1989. Spatial scaling in ecology. *Func. Ecol.* 3(4): 385-397.
- Wiens, J. A. 1990. On the use of 'grain' and 'grain size' in ecology. *Func. Ecol.* 4(5): 720-
- Wiens, J. A. 1991. Ecomorphological comparisons of the shrub-desert avifaunas of Australia and North America. *Oikos* 60: 55-.
- Wiens, J. A. 1992. What is landscape ecology, really? *Landscape Ecol.* 7(3): 149-.
- Wiens, J. A. 1994. Habitat fragmentation: island vs. landscape perspectives on bird conservation. *Ibis* 137: S97-S104.
- Wiens, J. A. 1995. Landscape mosaics and ecological theory. Pages 1-26 IN L. Hansson, L. Fahrig, G. Merriam (eds.). *MOSAIC LANDSCAPES AND ECOLOGICAL PROCESSES*. Chapman and Hall. London, United Kingdom.
- Wiens, J. A. and J. T. Rotenberry. 1979. Diet niche relationships among North American grassland and shrubsteppe birds. *Oecologia* 42: 252-292.
- Wiens, J. A. and J. T. Rotenberry. 1980a. Bird community structure in cold shrub deserts: competition or chaos? *Acta XVII Congr. Intl. Ornithol.*: 1063-1070.
- Wiens, J. A. and J. T. Rotenberry. 1980b. Patterns of morphology and ecology in grassland and shrubsteppe bird populations. *Ecol. Monogr.* 50: 287-308.
- Wiens, J. A. and J. T. Rotenberry. 1981. Habitat associations and community structure of birds in shrubsteppe environments. *Ecol. Monogr.* 51: 21-41.
- Wiens, J. A. and J. T. Rotenberry. 1985. Response of breeding passerine birds to rangeland alteration in a North American shrubsteppe locality. *J. Appl. Ecol.* 22: 655-668.
- Wiens, J. A. and M. I. Dyer. 1975. Rangeland avifaunas: their composition, energetics, and role in the ecosystem. Pages 146-182 IN Gen. Tech. Rep. WO-1. USDA - Forest Service.
- Wiens, J. A. and M. I. Dyer. 1977. Assessing the potential impact of granivorous birds in ecosystems. Pages 205-266 IN J. Pinowski and S. C. Kendeigh (eds.). *GRANIVOROUS BIRDS IN ECOSYSTEMS*. Cambridge Univ. Press. Cambridge, England.
- Wiens, J. A., B. van Horne, J. T. Rotenberry. 1987. Temporal and spatial variations in the behavior of shrubsteppe birds. *Oecologia* 73: 60-70.
- Wiens, J. A., C. S. Crawford, J. R. Gosz. 1985. Boundary dynamics: a conceptual framework for studying landscape ecosystems. *Oikos* 45(3): 421-427.
- Wiens, J. A., J. T. Rotenberry, B. van Horne. 1985. Territory size variations in shrubsteppe birds. *Auk* 102: 500-505.
- Wiens, J. A., J. T. Rotenberry, B. van Horne. 1986. A lesson in the limitations of field experiments: shrubsteppe birds and habitat alteration. *Ecology* 67: 365-376.
- Wiens, J. A., J. T. Rotenberry, B. Van Horne. 1986. A lesson in the limitations of field experiments: shrubsteppe birds and habitat alteration. *Ecology* 67: 365-376.
- Wiens, J. A., N. C. Stenseth, B. van Horne. 1993. Ecological mechanisms and landscape ecology. *Oikos* 66(3): 369-.

- Wilbur, H. M., D. W. Tinkle, J. P. Collins. 1974. Environmental certainty, trophic level, and resource availability in life history evolution. Amer. Natur. 108: 805-817.
- Wilcove, D. S. 1985. Nest predation in forest tracts and the decline of migratory songbirds. Ecology 66: 1211-1214.
- Wilcove, D. S. 1987. From fragmentation to extinction. Natural Areas J. 7(1): 23-29.
- Wilcove, D. S. and J. W. Terborgh. 1984. Patterns of population decline in birds. Amer. Birds 38: 10-13.
- Wilcove, D. S., C. H. McClellan, A. P. Dobson. 1986. Habitat fragmentation in the temperate zone. Pages 237-256 IN M. E. Soulé (ed.). CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinauer Assoc. Sunderland, MA.
- Wilcove, D. S., D. Rothstein, J. Dubow, A. Phillips, E. Losos. 1998. Quantifying threats to imperiled species in the United States. BioScience 48: 607-615.
- Wilcove, D. S., M. McMillan, K. C. Winston. 1993. What exactly is an endangered species? An analysis of the U. S. endangered species list: 1985-1991. Conserv. Biol. 7: 87-93.
- Wilcox, B. A. 1980. Insular ecology and conservation. Pages 95-118 IN M. E. Soulé (ed.). CONSERVATION BIOLOGY: THE SCIENCE OF SCARCITY AND DIVERSITY. Sinauer Assoc. Sunderland, MA.
- Wilcox, B. A. and D. D. Murphy. 1985. Conservation strategy: the effects of fragmentation on extinction. Amer. Natur. 125: 879-887.
- Wilcox, B. P. 1994. Runoff and erosion in intercanopy zones of pinyon-juniper woodlands. J. Range Manage. 34: 501-505.
- Wiley, R. H. 1969. Social structure of sage grouse strutting grounds. Proc. West. States Sage Grouse Workshop 6: 188-192.
- Wiley, R. H. 1970. Territoriality and non-random mating in sage grouse. Ph.D. thesis, Rockefeller Univ. New York, NY. 191 pages.
- Wiley, R. H. 1973a. Territoriality and non-random mating in sage grouse, *Centrocercus urophasianus*. Animal Behav. Monogr. 6: 85-169.
- Wiley, R. H. 1973b. The strut display of sage grouse: a "fixed" action pattern. Behaviour 47: 129-152.
- Wiley, R. H. 1974. Evolution of social organization and life-history patterns among grouse. Q. Rev. Biol. 49: 201-227.
- Wiley, R. H. 1978. The lek mating system of sage grouse. Sci. Amer. 238: 114-125.
- Wiley, R. H. and D. G. Richards. 1978. Physical constraints on acoustic communication in the atmosphere: implications for the evolution of animal vocalizations. Behav. Ecol. Sociobiol. 3: 69-94.
- Wilhelm, W. 1970. LAST RIG TO BATTLE MOUNTAIN. William Morrow and Co. New York, NY.
- Wilkinson, T. 1998. SCIENCE UNDER SIEGE. Johnson Books. Boulder, CO.
- Willard, E. E. 1990. Northwest rangelands: evolution of a temperate ecosystem. Western Wildlands, Summer: 2-6.
- Willett, G. 1906. Eggs of the sage grouse. Condor 8: 75.
- Williams, C. 1963. Range exclosures within the state of Wyoming. Wyoming Range Manage. 170: 1-19.

- Williams, G. R. 1954. Population fluctuations in some northern hemisphere game birds (Tetraonidae). *J. Animal Ecol.* 23: 1-34.
- Williams, R. L. 1972. Wild turkey, forest grouse, sage grouse, ringnecked pheasant, sharptail grouse. Wyoming Game and Fish Commission, Game Division, District III. Cheyenne, WY.
- Williams, R. L. 1973. Bird survey: 1972 pheasant study, 1972 sharptail study, 1972 wild turkey study, 1972 blue grouse study, 1972 chukar and Hungarian partridge study, 1972 sage grouse study. Project no. W-50-R. Wyoming Game and Fish Dept., Game Division, District III. Cheyenne, WY.
- Williams, R. L. 1974. Wild turkey, forest grouse, sage grouse, ringnecked pheasant, Hungarian and chukar partridge, sharptail grouse. Project No. W-50-R-22. Wyoming Game and Fish Dept., Game Division, District III. Cheyenne, WY.
- Willis, M. J. 1988. Coyote ecology and removal. *Progress Rep. Fed. Aid Wildl. Restor.* W-87-R-7. Oregon Dept. Fish and Wildl. 9 pages.
- Willis, M. J. 1991. Sage grouse winter habitat use and survival. *Fed. Aid Wildl. Restor.* W-87-R-4. Oregon Dept. Fish and Wildl. Portland, OR.
- Willis, M. J. G. P. Keister, D. A. Immell, D. M. Jones, R. M. Powell, K. R. Durbin. 1993. Sage grouse in Oregon. *Wildl. Res. Rep. 15.* Oregon Dept. Fish and Wildl. Portland, OR. 56 pages.
- Willson, M. F. 1995. Biodiversity and ecological processes IN R. Szaro and D. Johnson (eds.) *BIODIVERSITY IN MANAGED LANDSCAPES: THEORY AND PRACTICE.* Oxford Univ. Press New York, NY.
- Wilshire, H. G., G. B. Bodman, D. Broberg, [et al.]. 1977. Report of the committee on environment and public policy: impacts and management of off-road vehicles. *Geol Soc. Amer.* Boulder, CO.
- Wilson, E. O. 1975. *SOCIOBIOLOGY.* Harvard Univ. Press. Cambridge, MA.
- Wilson, E. O. 1985. The biological diversity crisis. *BioScience* 35: 700-706.
- Wilson, E. O. 1988. *BIODIVERSITY.* National Academy Press. Washington, DC.
- Winckler, S. 1992. *The Atlantic* 269(1): 74-81.
- Winegar, H. H. 1977. Camp Creek channel fencing: plant, wildlife, soil, and water response. *Rangeman's J.* 4: 10-12.
- Winegar, H. H. 1982. Streamflow augmentation through riparian recovery. *Riparian Workshop, Desert Conference IV;* April 3, 1982. 5 pages.
- Wing, L. W. 1946. Drumming flight in the blue grouse and courtship characters of the Tetraonidae. *Condor* 48: 154-157.
- Wing, L. W. 1951. *PRACTICE OF WILDLIFE CONSERVATION.* John Wiley & Sons. New York, NY. 412 pages.
- Wing, L. W. 1956. *NATURAL HISTORY OF BIRDS – A GUIDE TO ORNITHOLOGY.* Ronald Press Co. New York, NY.
- Winkel, V. K., and B. A. Roundy. 1991. Effects of cattle trampling and mechanical seedbed preparation on grass seedling emergence. *J. Range Manage.* 44: 176-180.
- Winston, W. L. 1996. Simulation modeling using @RISK. Wadsworth Publ. Florence, KY.
- Winter, B. M. 1984. Effects of prescribed burning on avian foraging ecology and arthropod abundance in sagebrush-grassland. M.S. thesis, Iowa State Univ. Ames, IA.

- Winward, A. H. 1970. Taxonomic and ecological relationships of the big sagebrush complex in Idaho. Ph.D. Diss., Univ. Idaho. Moscow, ID.
- Winward, A. H. 1980. Taxonomy and ecology of sagebrush in Oregon. Station Bull. 642. Oregon State Univ., Agric. Exp. Stn. Corvallis, OR.
- Winward, A. H. 1981. Using sagebrush ecology in management of wildlands. Pages 10-15 IN K. L. Johnson (ed.). Proc. First Utah Shrub Ecology Workshop. Utah State Univ. Logan, UT.
- Winward, A. H. 1985. Fire in the sagebrush-grass ecosystem--The ecological setting. Pages 2-6 IN K. Sanders, J. Durham, [et al.] (eds.). Proc. Rangeland Fire Effects: A Symposium; Nov. 27-29, 1984; Boise, ID. USDI-BLM, Idaho State Office. Boise, ID.
- Winward, A. H. 1991. Management in the sagebrush steppe. Oregon Agric. Exp. Stn. Spec. Rep. 880. Oregon State Univ. Corvallis, OR. 7 pages.
- Winward, A. H. and E. W. Tisdale. 1977. Taxonomy of the *Artemesia tridentata* complex in Idaho Forest, Wildl. and Range Exp. Stn. Bull. 19. Univ. Idaho. Moscow, ID.
- Winward, A. H. and G. C. Martinez. 1983. Nested frequency--an approach to monitoring trends in rangeland and understory timber vegetation. Pages 632-635 IN J. Bull and T. Atterburg (eds.). Proc. Intl. Conf. Oregon State Univ. Corvallis, OR.
- Winward, A. H., E. D. McArthur, D. A. Kaffer, C. A. Plummer, G. K. Brackley. 1986. Another sagebrush in Nevada. Tech. Notes RANGE NV-44. USDA-Nevada Soil Conservation Service. 2 pages.
- Wirth, T. A. and D. A. Pyke. 1999. Improving sage grouse habitat: emergence of three species of forbs in response to fire and microsite. Abstracts, 84<sup>th</sup> Annual Meeting, Ecol. Soc. Amer. Spokane, WA.
- Wisdom, M. J., R. S. Holthausen, D. C. Lee, [et al.]. 1998. Source habitats for terrestrial vertebrates of focus in the Interior Columbia Basin: broad-scale trends and management implications. USDA-Forest Service, Pac. Northwest Res. Stn.
- Wiseman, A. and E. Bird. 1969. Artificial propagation of sage grouse. Proc. West. States Sage Grouse Workshop 6: 103-110.
- With, K. A. 1994. Using fractal analysis to assess how species perceive landscape structure. Landscape Ecol. 9: 25-36.
- With, K. A. and D. R. Webb. 1993. Microclimate of ground nests: the relative importance of radiative cover and wind breaks for three grassland species. Condor 95: 401-413.
- With, K. A. and T. O. Crist. 1995. Critical thresholds in species responses to landscape structure. Ecology 76: 2446-2459.
- Witham, J. H. 1977. Movement and spacing patterns of female coyotes near Anderson Mesa, Arizona. M.S. thesis, Northern Arizona Univ. Flagstaff, AZ. 90 pages.
- Witkin, S. R. 1977. The importance of directional sound radiation in avian vocalization. Condor 79: 490-493.
- Wittenberger, J. F. 1978. The evolution of mating systems in grouse. Condor 80: 126-137.
- Woo, J., J. L. Vanuatu, Y. Burls. 1993. Effects of patch connectivity and arrangement on animal metapopulation dynamics: a simulation study. Envl. Modeling 65: 221-254.
- Wood, D. S. and G. D. Schnell. 1984. DISTRIBUTIONS OF OKLAHOMA BIRDS. Univ. Oklahoma Press. Norman, OK. 209 pages.
- Wooley, D. J. 1946. Estimated sage grouse kill, 1945. Colo. Conserv. Comments 9(1): 19

- Woolf, A., R. Norris, J. Kube. 1984. Evaluation of ruffed grouse reintroductions in southern Illinois IN W. L. Robinson (ed.). RUFFED GROUSE MANAGEMENT: STATE OF THE ART IN THE EARLY 1980S. The Wildlife Society, North Cntrl. Sec. Chelsea, MN. 181 pages.
- Worrall, L. (ed.). 1990. GEOGRAPHIC INFORMATION SYSTEMS: DEVELOPMENTS AND APPLICATIONS. Belhaven Press. New York, NY.
- Woyewodzik, B. 1999. Memorandum dated Aug. 12, 1999 to J. Sintz, Utah BLM re sage grouse FOIA. Cover page with 2 page attachment headed "Monticello Field Office."
- Wright, H. A. 1974. Range burning. J. Range Manage. 27: 5-11.
- Wright, H. A. and A. W. Bailey. 1982. FIRE ECOLOGY: UNITED STATES AND SOUTHERN CANADA. John Wiley & Sons. New York, NY.
- Wright, H. A., L. F. Neuenschwander, C. M. Britton, M. Carlton. 1979. The role and use of fire in sagebrush-grass and pinyon-juniper plant communities: a state-of-the-art review. Gen. Tech. Rep. INT-58. USDA – Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- Wright, R. G., J. G. MacCracken, J. Hall. 1994. An ecological evaluation of proposed new conservation areas in Idaho: evaluating proposed Idaho National Parks. Conserv. Biol. 8: 207-216.
- Wu, J. and J. L. Vankat. 1991. A system dynamics model of island biogeography. Bull. Math. Biol. 53(6): 911-940.
- Wuerthner, G. 1998. Are cows just domestic bison? Behavioral and habitat use differences between cattle and bison. Pages 374-383 IN L. Irby and J. Knight (eds.). Intl. Symp. Bison Ecology and Management in North America. Montana State Univ. Bozeman, MT.
- Wuerthner, G. 1999. Electronic mail message to Dr. Randy Webb containing transcribed notes from an interview conducted on March 31, 1964, with Sid Tremewan, First Forest Supervisor of the Humboldt NF. (Email dated Aug. 3, 1999).
- Wyoming Game and Fish Commission. 1948. Federal aid in wildlife restoration quarterly reports, April 15, 1948--turkey and sage grouse survey, 30-R-1. Cheyenne, WY.
- Wyoming Game and Fish Dept. 1977. HANDBOOK OF BIOLOGICAL TECHNIQUES. Wyoming Game and Fish Dept. Cheyenne, WY.
- Wyoming Game and Fish Dept. 1992. WYOMING BIRD AND MAMMAL ATLAS. 170pp.
- Yahner, R. H. and R. A. Voytko. 1989. Effects of nest-site selection on depredation of artificial nests. J. Wildl. Manage. 53: 21-25.
- Yanskey, G. R., E. H. Markee, A. P. Richter. 1966. Climatology of the National Reactor Testing Station. U.S. Atomic Energy Comm. 213 pages.
- Yensen, D. L. 1980. The 1900 invasion of alien plants into southern Idaho. Great Basin Natur. 41: 176-183.
- Yensen, D. L. 1982. A grazing history of southwestern Idaho with emphasis on the Birds of Prey Study Area. USDI-BLM, Boise District. Boise, ID.
- Yoakum, J. 1986. Use of *Artemisia* and *Chrysothamnus* by pronghorns. Pages 176-180 IN E. D. McArthur and B. L. Welch (compilers). Proc. Symp. on the Biology of *Artemisia* and *Chrysothamnus*; July 9-13, 1984; Provo, UT. Gen. Tech. Rep. INT-200. USDA – Forest Service, Intermountain Res. Stn. Ogden, UT.
- Yoakum, J. D. 1975. Antelope and livestock on rangelands. J. Animal Sci. 40: 985-992.

- Yoakum, J. D., R. Eckert, G. C. Christensen. 1969. Management and research of meadowlands in Nevada. Proc. West. States Sage Grouse Workshop 6: 141-147.
- Yocom, C. F. 1956. The sage hen in Washington state. Auk 73: 540-550.
- Yodzis, P. and R. R. Schneider. 1994. Extinction dynamics in the american marten (*Martes americana*). Conserv. Biol. 8: 1058-
- Young, J. A. 1977. Sagebrush steppe. Pages 763-96 IN M. G. Barbour and J. Major (eds.). TERRESTRIAL VEGETATION IN CALIFORNIA. Wiley Interscience. New York, NY.
- Young, J. A. 1978. Population dynamics after wildfires in sagebrush grasslands. J. Range Manage. 31: 283-289.
- Young, J. A. 1981. Demography and fire history of a western juniper stand. J. Range Manage. 34: 501-506.
- Young, J. A. 1992. Ecology and management of medusahead (*Taeniatherum caput-medusae* ssp. *asperum* [Simk.] Melderis). Great Basin Natur. 52: 245-252.
- Young, J. A. 1994. Changes in plant communities in the Great Basin induced by domestic livestock grazing. Pages 113-123 IN K. T. Harper, L. L. St. Clair, K. H. Thorne, W. M. Hess (eds.). NATURAL HISTORY OF THE COLORADO PLATEAU AND GREAT BASIN. Univ. Colorado Press. Niwot, CO.
- Young, J. A. and B. A. Sparks. 1985. CATTLE IN THE COLD DESERT. Utah State Univ. Press. Logan, UT.
- Young, J. A. and R. A. Evans. 1981. Demography and fire history of a western juniper stand. J. Range Manage. 34: 501-506.
- Young, J. A. and R. A. Evans. 1970. Invasion of medusahead into the Great Basin. Weed Science 18: 89-97.
- Young, J. A. and R. A. Evans. 1978. Population dynamics after wildfire in sagebrush grasslands. J. Range Manage. 31: 283-289.
- Young, J. A., R. A. Evans, B. L. Kay. 1987. Cheatgrass. Rangelands 9: 266-270.
- Young, J. A., R. A. Evans, J. Major. 1971. Alien plants in the Great Basin. J. Range Manage. 24: 194-201.
- Young, J. A., R. A. Evans, P. T. Tueller. 1976. Great Basin plant communities--pristine and grazed. Pages 187-215 IN R. Elston and P. Headrick (eds.). HOLOCENE ENVIRONMENTAL CHANGE IN THE GREAT BASIN. Nevada Archaeol. Surv. Res. Paper no. 6.
- Young, J. A., R. E. Eckert, R. A. Evans. 1979. Historical perspectives regarding the sagebrush ecosystem. Pages 1-13 IN The Sagebrush Ecosystem: A Symposium. Utah State Univ., College of Nat. Resources. Logan, UT.
- Young, J. R. 1991. Can sexual selection cause speciation among sage grouse populations? Western States Sage and Columbian Sharp-tailed Grouse Worshop Trans. 17: 22.
- Young, J. R. 1992a. Influence of secondary sexual traits on male mating success in an isolated population of sage grouse. Fourth Intl. Behav. Ecol. Congr.; Aug. 17-22, 1992. (World Meeting No. 923 5022). Princeton Univ. Dept. Ecol. and Evol. Biol. Princeton, N. J.
- Young, J. R. 1992b. Letter dated Nov. 3, 1992 to Barry Tolleson, Area Manager, BLM, Gunnison, Colorado. 4 pages.

- Young, J. R. 1994. Male vocalizations act as mating barriers between sage grouse populations: the effect of playbacks on female mating behavior. 1994 Midwest Animal Behavior Conference; Apr. 8-10, 1994; Carbondale, IL. (World Meeting Number 942 5508) Paper No. 4. Southern Illinois Univ., Dept. of Zool. Carbondale, IL.
- Young, J. R. 1994. The influence of sexual selection of phenotypic and genetic divergence among sage grouse populations. Ph.D. Diss., Purdue Univ. West Lafayette, IN.
- Young, J. R. 1999. Electronic mail transmission (Email) to Jasper Carlton, Director of the Biodiversity Legal Fund dated Sept. 21, 1999 re "Copy of response to proposed Tomichi EA." This Email sets forth Dr. Young's concerns regarding BLM grazing actions and their effect on sage grouse.
- Young, J. R. 1999. Memo.
- Young, J. R. 2000. Email to Dr. Randy Webb dated Jan. 24, 2000 re review of Dr. Braun's answers to 11 questions.
- Young, J. R. and D. J. Minchella. 1997. The role of genetics and behaviour in sage grouse *Centrocercus urophasianus* management and conservation. Wildl. Biol. 3: 276-.
- Young, J. R., J. W. Hupp, J. W. Bradbury, C. E. Braun. 1994. Phenotypic divergence of secondary sexual traits among sage grouse, *Centrocercus urophasianus*, populations. Animal Behav. 47: 1353-1362.
- Young, L. J. and J. H. Young. 1998. STATISTICAL ECOLOGY: A POPULATION PERSPECTIVE. Kluwer Academic Press. Boston, MA.
- Young, L. S. and D. E. Varland. 1998. Making research meaningful to the manager. Pages 415-417 IN J. M. Marzluff and R. Sallabanks (eds.) AVIAN CONSERVATION: RESEARCH AND MANAGEMENT. Island Press. Washington, DC.
- Young, R. P. 1983. Fire as a vegetation management tool in rangelands of the intermountain region. Pages 18-31 IN S. B. Monsen and N. Shaw (eds.) Managing Intermountain Rangelands - Improvement of Range and Wildlife Habitats. Gen. Tech. Rep. INT-157. USDA-Forest Service, Intermountain Forest and Range Exp. Stn. Ogden, UT.
- YTC CA (Yakima Training Center Conservation Agreement) 1994. Conservation Agreement --Western Sage Grouse (*Centrocercus urophasianus phaios*). (Signed by U.S. Fish and Wildlife Service, Washington Dept. Fish and Wildlife, and Garrison Commander, Ft. Lewis, WA.).
- Zablan, M. A. 1990. Progress report: Sage grouse survival estimation, North Park, Colorado. Colorado Div. of Wildlife. Fort Collins, CO. 15 pages.
- Zablan, M. A. 1993. Evaluation of sage grouse banding program in North Park, Colorado. M.S. thesis, Dept. Fish and Wildlife, Colorado State Univ. Fort Collins, CO. 68 pages.
- Zahavi, A. 1975. Mate selection: a selection for a handicap. J. Theor. Biol. 53: 205-214.
- Zamora, B. and P. T. Tueller. 1973. *Artemisia arbuscula*, *A. longiloba*, and *A. nova* habitat types in northern Nevada. Great Basin Natur. 33: 225-242.
- Zar, J. H. 1984. BIOSTATISTICAL ANALYSIS. 2<sup>nd</sup> ed. Prentice-Hall. Englewood Cliffs, NJ.

- Zeger, S. L. and K. Y. Liang. 1986. Longitudinal data analysis for discrete and continuous outcomes. *Biometrics* 42: 121-130.
- Zeigler, D. L. 1978. Distribution and status of sage grouse in eastern Washington. Fed. Aid Wildl. Restor. Proj. W-70-R-17, job 1. Wash. Dept. Fish and Wildl. Olympia, WA.
- Zimmerman, R. C., J. C. Goodlett, G. H. Comer. 1967. The influence of vegetation on channel form of small streams. *Intl. Assoc. of Sci. Hydrology, Symp. River Morphology* 75: 255-275.
- Zonge, K. L., S. Swanson, T. Myers. 1996. Drought year changes in streambank profiles on incised streams in the Sierra Nevada mountains. *Geomorphology* 15: 47-56.
- Zunino, G. W. 1987. Harvest effect on sage grouse densities in northwest Nevada. M.S. thesis, Univ. Nevada, Reno, NV. 41 pages.
- Zunino, G. W. and M. S. Stigar. 1986. Sage grouse densities and hunting impacts: hunting and harvest impacts on a sage grouse population. Nevada Dept. of Wildlife. 52 pages.
- Zwickel, F. 1958. North-central Washington grouse. *Wash. State Game Bull.* 10(4): 3-4.
- Zwickel, F. C. and A. N. Lance. 1965. Renesting in blue grouse. *J. Wildl. Manage.* 29: 402-404.
- Zwickel, F. C., I. O. Buss, J. H. Brigham. 1968. Autumn movements of blue grouse and their relevance to populations and management. *J. Wildl. Manage.* 32: 456-468.

